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CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

JANUARY 1971

Volume 67 No. 1

MAY 18 1971

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature										Precipitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
JANUARY 1971

Continued

Station	Temperature											Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										30° or Above	20° or Below	31° or Below	0° or Below										
KEAAU 92	79.3	61.3	70.3	.0	85	17+	58	22+		0	0	0	0	14.62	2.06	5.22	9	.0	0		9	8	5
KEAIAKEUA 26.2	74.0	60.8	67.4		77	28+	56	21+		0	0	0	0	17.13		4.38	29	.0	0		13	8	6
KONA (KAILUA) 68.3					82	28+	60	9		0	0	0	0	11.14		4.15	29	.0	0				
KUKIHAELE HIC 199														11.16	5.03	2.13	29	.0	0		11	8	4
KULANI CAMP 79	62.1	44.7	53.4		70	15	33	1		0	0	0	0	21.66		5.24	28	.0	0		13	6	5
PAHALA 21					83	15	55	4		0	0	0	0	20.75	12.72			.0	0				
POMAKULOA 107														5.88		1.82	9	.0	0				
PJAKO 95.1														9.85		5.12	29	.0	0		9	5	2
PJWAAAA 94.1					87	28	58	21		0	0	0	0	16.40	13.17	6.20	29	.0	0		9	7	5
UMIKOA 118														6.49	.67	1.51	10	.0	0		6	6	3
WAIKOA SCD 8R+2														11.92		3.72	9	.0	0		10	7	5
WAIKOA KDHALA	70.4	48.1	59.3		75	28+	38	3+		0	0	0	0	8.98		3.18	29	.0	0		9	5	3
ISLAND			65.3											14.54				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 87° ON THE 28+ AT 4 STATIONS

LOWEST TEMPERATURE: 19° ON THE 22D AT MAUNA LOA SLOPE 065, HAWAII

GREATEST TOTAL PRECIPITATION: 36.54 AT PAHOA 65, HAWAII

LEAST TOTAL PRECIPITATION: 5.55 AT KULANI MAUKA 76, HAWAII

GREATEST ONE-DAY PRECIPITATION: 12.38 ON THE 9TH AT PAHOA 65, HAWAII

SPECIAL WEATHER SUMMARY

For the third successive month in what has thus far been one of its worst winters of recent years, Hawaii was subjected to a variety of severe weather, including flooding rains and a devastating waterspout.

The meteorological conditions responsible (low pressure aloft above or just west of the State-- and an associated jet stream -- on more than 3 days out of 4; cold front passages, with fronts near enough to affect the Islands on about half the days of the month; and intense storms to the north) resulted also in high surf and waves, strong winds, widespread falls of hail, heavy snows on the upper slopes of Mauna Kea, Mauna Loa, and Haleakala, and an unusually large number of funnel clouds and suspected tornadoes. The frequency of trade winds (as measured at Honolulu International Airport) declined to 21 percent; rainfall was heaviest in the normally drier leeward (western) sides of the major Islands; Hilo had thunderstorms on 8 days, in contrast to its January mean of one day; and sunshine dropped to well below the January normal.

Beginning on the morning of the 5th, strong southwest winds in advance of an approaching cold front, and locally augmented by topography, blocked roads on parts of West Kauai, Oahu (where, as Table I shows, gusts reached 78 m.p.h. at Wheeler Air Force Base and 58 m.p.h. at Kaneohe Marine Corps Air Station) and Hawaii with branches and fallen trees; unroofed a home in Kahaluu, Oahu; knocked down powerlines in sections of Maui; and on Hawaii Island damaged saran greenhouses and 100 papaya trees in Puna and toppled 10 acres of banana plants in Kona. At Haleakala's 10,023-foot summit winds estimated to be up to 90 m.p.h. knocked out the TV transmitter, while snow 2 to 4 inches deep, with drifts of 6 to 8 feet, extended down to an elevation of 8,000 feet, the lowest reached on Haleakala in 3-1/2 years. More than 5,000 sightseers driving up to see and touch the unaccustomed snow created a mammoth traffic jam, forcing rangers to close the road to the snowfields.

The front was accompanied by hail and funnel clouds. The first of the latter, the forerunner of many to follow later in the month, had been spotted on January 4 about 15 miles west of Honolulu International Airport between 8:27 and 9:04: a narrow curved appendage about 1,000 feet long, which twice descended from and re-ceeded into its parent cloud -- a cumulus, with tops at 8,000 feet and base at 2,500 feet.

On January 5, hail half-an-inch in diameter fell at Kokee, Kauai, and "as big as dimes" at

Kulaimano and the city of Refuge on Hawaii Island.

The next day Kauai had hail again: clear hailstones 1/4 inch in diameter during a thunderstorm at Kekaha, and Oahu reported two additional funnel clouds, the first between 2:06 and 2:26 p.m., south of Ewa Beach, and the second south of Waikiki, between 3:25 and 3:30 p.m.

Also on the 6th, waves generated by storms to the north partially washed out a pier and walkway and sank 3 small boats at Pokai Bay, Oahu; and, at Keauhou Bay on Hawaii Island's Kona coast, flooded the grounds of a hotel and the first floor of another hotel under construction, damaged a 33-foot sloop and a concrete boat at Keei Beach, and knocked down several trees along Alii Drive between Kailua and Kahaluu Beach Park. The latter was completely under water for 2 days. Surf heights on Oahu reached 25 feet at Waialua and Haleiwa and 15 to 20 feet at Sunset Beach. On Kauai, Hanalei and Kilauea Lighthouse reported 15- and 22-foot surf, respectively.

On January 8 and 9, heavy rain fell over Maui and Hawaii from clouds spiraling into a low pressure center about 300 miles west-northwest of the Islands. Residents in Maui's Paukukalo area were instructed to evacuate as Iao Stream threatened to overflow, but the stream subsided. On Hawaii Island a portion of the Belt Road near Honokaa was blocked by debris, and water backed up on Route 130 near Pahoa, whose 24-hour rainfall reading of 12.38 inches on the morning of the 9th was its greatest of record, exceeding the previous total of 10.96 inches. On the 10th, a strong gust of wind knocked down a kerosene stove chimney on the back porch of a Hilo home, causing \$3,000 in fire damage.

On the 15th, strong southwest winds preceding an approaching cold front did over \$100,000 in damage on Oahu alone. Powerlines and trees were downed in many areas. In windward Oahu, winds made more blustery in passing over the mountains, damaged 28 homes, a classroom, an armory and a warehouse, and -- in Waimanalo -- toppled a 40-foot ironwood tree onto a car, injuring the two occupants. Lanai Airport closed down. Roofs were damaged on one home on Maui and five in Molokai's Hoolehua district, and a carpenter was injured by a flying 4- x 8-foot plywood sheet in Kaanapali, Maui. Crops were bruised by the wind.

Up to this time the weather had been far from placid, but the most punishing blows were yet to come. Under the influence of an intensifying area of low pressure in the upper atmosphere,

SPECIAL WEATHER SUMMARY - Continued

a front that had developed about 1,000 miles to the northwest by the afternoon of the 25th began to strengthen as it approached Hawaii. The atmosphere in the Hawaiian area was already unstable, prepared to respond violently to further agitation. Thunderstorms over Kauai dropped hail at Wailua on the 25th. Between 8:00 and 8:30 the following morning, hail fell again, this time at Makaha Ridge, and three funnel clouds, one of which briefly reached the sea surface, were observed 6 to 9 miles west to northwest of Barking Sands, Kauai.

As the cold front moved through the Islands it carried with it strong southwesterly winds, heavy rains, and a greater number of damaging funnel clouds than any storm in Hawaii's recorded history.

At about 11:55 p.m. on the 27th, what a subsequent field survey indicated must almost certainly have been a small tornado, touched down in a pineapple field about 1/2 mile southwest of Whitmore Village, Wahiawa, Oahu. As indicated by wind-damaged pineapple leaves, its width at that time was about 42 feet. The "tornado" then moved northeastward in a straight line. It was 115 feet wide when it left the pineapple fields and continued onward to smash 3 quonset hut warehouses, tear out a Butler building wall, and move through Whitmore Village, where 18 homes, about 30 years old, and mainly of wood-frame, single-wall, sheet iron roof construction, sustained severe roof and less serious wall damage or were moved off their foundations. Tornado evidences included jet aircraft-like noises heard by residents before their houses were hit, twisted pineapple leaves, toppled banana plants, and adjacent houses differentially twisted off their foundations. Total damage was estimated at over \$100,000.

As the front moved southeastward, it continued to spawn funnel clouds. Beginning in the early morning of the 28th, at least six appear to have struck Hawaii Island's Kona area, presumably forming over the sea as waterspouts and moving onshore in the southwesterly winds. In only one instance was a funnel actually sighted -- the one that struck Kailua-Kona, and is described below. The others appear to have occurred during the hours of darkness. At Honomalino Farms in South Kona what may have been one or more tornadoes uprooted over 2,500 macadamia nut trees and damaged a house. Further north, what may have been another passed through the Paris and Greenwell Ranches at Kainaliu, where it uprooted 500 to 600 trees, twisted off the tops of several ohia trees 3 feet in diameter, picked up and threw a steel molasses

tank about 60 feet, and unroofed a house at the Paris Ranch. Winds, that may have been tornadoes, plowed through fern trees at Honaunau Forest Reserve, took a roof off a cabin on the slopes of Mt. Hualalai, and damaged a water collection complex on the Puu Waawaa Ranch.

The most severe tornado, witnessed and photographed by many persons, began as a large waterspout which swept into Kailua Bay from the ocean and moved onshore at about 11:50 a.m., cutting a swath through the downtown business and hotel district of Kailua-Kona, the major resort town on Hawaii Island's Kona coast. The funnel tore roofs and walls off waterfront houses, a hotel, and a newly-completed shopping mall; demolished the building housing the post office and a bank; collapsed a 7-story hotel, under construction, into a pancake-like heap of twisted girders and concrete slabs; and damaged a number of cars, 2 service stations and an auto center. The waterspout then moved upslope into an apartment project, damaging 40 units, many of them severely, and requiring 79 residents to be relocated. Miraculously, only four persons were injured, of whom one required hospitalization. Conservative estimates placed the damage in excess of \$1.5 million.

Meanwhile, on Maui, on the morning of the 28th, heavy rains that had begun the day before with the passing of the cold front, were causing streams and ditches to overflow, flooding homes, stores, and other buildings, damaging cars, and severely eroding fields and roads. Hardest hit were the Paia and Kihei areas in Central Maui. Clogged by debris, upper Iao Stream in the lower West Maui Mountains formed a new channel and flooded several homes, destroyed a section of the road to upper Iao Valley and forced 40 residents of Paukukalo to leave their homes.

Onrushing flood waters from the hills above Paia formed a lake at the intersection of Baldwin Avenue and Hana Highway, inundating buildings and parked cars.

At Kihei, two vehicles were washed into the ocean when a plugged culvert caused a normally shallow stream to overflow onto the road. Several apartment buildings were damaged and five cars trapped when the flood waters undermined a parking area. Other sections of Maui were also hit by scattered flooding, landslides, and washouts.

As Figure I shows, rainfall was greatest on the slopes of Haleakala, although the indicated storm maximum of 16 inches is by no means extraordinary by Hawaiian standards. Rainfall rates

SPECIAL WEATHER SUMMARY - Continued

were also modest. The greatest recorded was 2.25 inches an hour at Kihei.

It is not surprising that rainfall for the month was almost everywhere above the January average, except for a few gages in northeastern Kauai and in the Hamakua and Hilo areas of Hawaii Island (see Figures II-A and II-B). Extensive portions of all the Islands but Kauai had over

three times their January means. A number of places received between four and six times, and on Hawaii Island up to nine times their average January rainfall.

As the list below shows, many stations had more rainfall in January 1971 than in any previous January, and some of them more than in any month of record.

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Stations Whose Previous Greatest January Rainfall Totals were Exceeded in January 1971

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest January Total	January 1971
OAHU			
Kawaihapai	40	16.30	18.49 *
Kemoo Camp	45	17.57	23.05
Waialua	69	17.15	21.82
MAUI			
Haleakala Ranger Station	31	30.89	33.89
Honokohua	42	11.83	13.51
Kauaula Intake	51	17.35	18.71
Keahua	51	15.21	20.04 *
Kihei	47	11.46	17.31 *
Kula Sanatorium	52	16.37	22.75 *
Launiupoko Village	43	9.88	12.10 *
Paia	65	12.87	18.78
Puunene	65	10.13	14.03
Spreckelsville	62	14.75	16.74 *
Ukumehame	40	10.23	12.51 *
Wahikuli	49	10.33	11.67
HAWAII			
Ahua Umi	46	7.70	18.00
Halemaumau	37	21.22	23.00
Hawi	70	18.00	18.79
Holualoa Beach	49	12.27	16.20 *
Honaunau	31	7.25	15.40 *
Huehue	66	17.74	21.50
Kaawaloa	28	15.37	17.53
Kainaliu	39	14.64	19.03 *
Kealahou	54	15.25	17.13 *
Kioloa A & F	40	25.10	26.50 *
Kohala	74	15.10	15.92
Lanihau	27	17.28	20.07 *
Manuka	40	12.40	14.83
Middle Holualoa	27	14.43	15.73 *
Pakao	41	21.86	22.10
Pohakuloa	32	5.58	5.88
Puu Laau	37	7.35	8.65
Puu Lehua	46	9.40	18.00 *
Puu Waawaa	66	11.80	16.40 *

* Greatest in any month of record

Peak Gusts Observed During the Strong Winds of January 1971 (m.p.h.)

Island	Location	January 5	January 15	January 27-28
KAUAI	Makaha Ridge	--	66	52
	Kokee	35	61	--
	Lihue	43	53	37
OAHU	Barbers Point	--	47	45
	Honolulu	40	45	35
	Kaena Point	40	69	52
	Kaneohe	58	63	53
	Wheeler AFB, Wahiawa	78	62	56
MAUI	Kahului	46	54	42
HAWAII	Hilo	36	24	36
	Keahole	46	40	46
	Kamuela	--	35	--

[illegible][illegible]

DAILY PRECIPITATION

HAWAII
JANUARY 1971

Station		Total	Day of Month																															JANUARY 1971	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF KAUAI																																			
ANAHOLA 1114	A	8.43	*	*	*	.03	.75	.10	.61	*	*	*	.30	.85	.03	.20	.45	*	*	.96		.75	.10	.30			.30	1.50	1.20	*	*	*			
BRIDGESWOOD STA 985	A	12.34	*	*	*	.57	1.65	.31	.31	.10	*	*	1.24	1.22	.63	.34	.38	*	*	1.32	T	.01	.02	.08			T	1.80	2.61	.05	*	*			
EAST LAKE 934	A	12.39	*	*	*	.58	2.41	.21	.23	.10	*	*	.84	.89	.88	.16	.07	*	*	1.71			.02	.08			T	1.55	2.68	.08	*	*			
ELELE 927	A	10.21	*	*	*	.12	.44	.24	.03	*	*	*	1.55	.44	.44	.29	.21	*	*	1.77							T	1.24	2.15	.05	*	*			
HAUKA 1110	A	8.83	*	*	*	.21	.80	.05	.50	*	*	*	.40	.70	.02	.17	.49	*	*	.99		.60	.10	.25			.30	1.40	1.35	*	*	*			
HALENAHMO 1006	A	11.06	*	*	*	.23	1.31	.43	.31	.02	*	*	.88	.71	.44	.37	.27	*	*	1.31		.60	.14	.24	*	*	.02	.03	2.03	2.19	.07	*	*		
HAUPA 945	A	11.90	*	*	*	.33	2.62	.58	.43	*	*	1.47	.73	1.12	.51	.30			1.25		.14	.25	.15	*	*	.05	.35	2.68	2.64	.08	*	*			
ILILIULA INTAKE 1050	A	17.21	*	*	*	.35	.05	.14	.24	*	*	*	.10	.10	.28	.42	.19	*	*	2.03		.10	.25	.15	*	*	*	.35	2.68	2.64	.08	*	*		
INTAKE WAINIHA PC 1086	A	17.97	*	.10	*	.35	.05	.14	.24	*	*	*	.10	.10	.28	.42	.19	*	*	2.03		.10	.25	.15	*	*	*	.35	2.68	2.64	.08	*	*		
KANALAHULU 1075	A	25.52	.02	*	*	.50	5.05	1.45	.88	.67	1.84	.09	.81	.72	.38	.70	.74	2.05	.09	*		.10	.78	.20	.04		.26	3.16	5.20	.29	*	*			
KANEHA RESERVOIR 1092	A	10.36	*	*	*	.13	.40	.25	.60	*	*	*	.39	.70	.05	.23	.90	*	*	.90		.90	.36	.55			1.05	1.40	1.55	*	*	*			
KAPAA STABLES 1104	A	8.86	*	*	*	.24	.88	.15	.45	*	*	*	.20	.57	.04	.10	.52	*	*	.80		1.00	.07	.26	*	*	.68	1.60	1.50	*	*	*			
KEALIA 1112	A	8.09	*	*	*	.30	.70	.05	.49	*	*	*	.20	.75	.02	.13	.36	*	*	.94		.50	.17	.23			.25	1.65	1.35	*	*	*			
KEKAMA 944	A	9.13	*	*	*	1.03	.44	.92	.14	.95	*	*	.12	.35	.44	.37	.20	*	*	1.17		.03	.27	.30	*	*	.10	1.07	1.90	.03	*	*			
KILAUEA 1134	A	4.98	*	*	*	.27	.38	.90	.91	.03	*	*	.09	.05	.03	.20	.06	*	*	.84		.03	.27	.30	.10	*	.10	.02	.40	*	*	*			
KILAUEA FIELO 17 1135	A	4.78	*	*	*	.30	.30	.74	.87	.05	*	*	.10	.09	.01	.21	.09	*	*	.92		.01	.14	.10	.15	*	.07	.03	.60	*	*	*			
KILAUEA POINT 1133	A	8.05	*	*	*	.50	.59	.62	.03	.09	*	*	.12	.10	.39	.57	.04	.04		1.00		.30	.05	.32			.77	.78	.20	.03	.24	2.35			
KOLD 1033	A	10.08	*	*	*	.90	.54	1.29	.41	.58	*	*	.20	.45	.25	.30	.02	.60		1.00		.30	.05	.13			.77	.78	.20	.03	.24	2.35			
KOLDA 936	A	11.95	*	*	*	.46	1.97	.61	.22	*	*	*	.71	.60	.52	.20	.10	*	*	1.58		.01	.16	.13	*	*	.10	2.22	2.71	.05	*	*			
KOLDA MAUKA 994	A	13.68	*	*	*	.35	1.93	.11	.33	.09	*	*	1.34	1.39	.74	.53	.67	*	*	1.24		.09	.11	.06	*	*	.02	.05	2.26	2.29	.08	*	*		
KOLDOK RES 1137	A	7.11	*	*	*	.36	.38	.37	.38	.37	*	*	.24	.08	.02	.28	.12	*	*	.94		.01	.15	.23	.35	*	.31	.04	1.37	1.06	.05	*	*		
KUKUIJULA 935	A	11.24	*	*	*	.36	1.64	.51	.25	.01	*	*	.82	.68	.37	.16	.06	*	*	1.69		.17	.23	.04	*	*	.10	1.67	2.84	.02	*	*			
LIHUE VARIETY STA	A	9.68	.05	*	*	.15	.50	.46	.46	.28	*	*	.10	.58	.13	.25	.71	1.14	*	.02		.15	.40	.10	*	.02	.50	1.91	1.33	.03	*	*			
LIHUE 1020	A	9.13	*	*	*	.13	1.29	.02	.68	*	*	*	.57	.29	.35	.18	.48	*	*	1.08		.65	.35	.10	.01		.53	1.48	2.90	1.55	.02	*	*		
LIHUE WSO 1020.1	//R	11.94	.08	*	*	.45	.75	.46	.7	.05	.03	T	.69	.08	.21	.71	.68	.31		.52		.14	.17			.53	1.48	2.25	.40			1.95			
MAKAHUNA POINT 940.1	A	9.65	.04	.12	*	.14	.49	.12	.50	.39	.14		1.10	.35	.19	.05	.30	1.25	.06		.01	.04	.04			.06	.02	2.15	1.22	.01					
MAKALEI 965	A	13.94	*	*	*	1.21	1.58	.38	.62	.39	.21	.49	.98	.33	.02	.10	1.22	.07									1.08	1.92	.03			.94			
MANA 1026	A	9.46	*	*	*	.37	.63	1.33	.06	.75	*	*	.42	.30	.31	.02	.08	1.07	1.38	.03							.01	1.24	.05	.01					
MOHITHI UPD CROSS 1083	A	6.03	*	*	*	.10	.42	.37	.68	*	*	*	.25	.48	*	.20	.25	*	*	.62		1.01	.92				1.47	1.10	4.32	1.56	.09	2.85			
MOLDOA 1145	A	6.03	*	*	*	.10	.42	.37	.68	*	*	*	.25	.48	*	.20	.25	*	*	.62		.03	.23	.08	*	*	.03	1.35	.93	.01	*	*			
MOUNT WATALEALE 1047	A	10.45	*	*	*	.10	.42	.37	.68	*	*	*	.25	.48	*	.20	.25	*	*	.62		.03	.23	.08	*	*	.03	1.35	.93	.01	*	*			
NIU RIDGE 1035	A	10.45	*	*	*	.10	.42	.37	.68	*	*	*	.25	.48	*	.20	.25	*	*	.62		.03	.23	.08	*	*	.03	1.35	.93	.01	*	*			
N. WAILUA DITCH 1051	A	22.74	*	*	*	.37	2.60	.30	1.16	*	*	*	1.54	1.19	.60	.57	2.60	*	*	1.86		.60	1.20	.56	*	*	.66	.50	3.76	2.90	.30	*	*		
P. WAINIHA 1115	T	9.15	.01	*	*	.48	2.01	1.53	.08	.02	.17	.21	.31	.07	.15	.32	.28	.16		.12		.15	.42			.01	.02	.69	2.76	.68	.05	*	*		
PRINCETON RANCH 1117	A	9.15	.01	*	*	.48	2.01	1.53	.08	.02	.17	.21	.31	.07	.15	.32	.28	.16		.12		.15	.42			.01	.02	.69	2.76	.68	.05	*	*		
PUEHU RIDGE 1040	A	13.44	*	*	*	.15	.53	.60	.46	.80	.65	.92	.94	.52	.23	.11	1.10			1.41		.02	.26	.24	.18		.02	.28	2.62	.01	*	*			
PUEHU 1013	A	12.92	*	*	*	.22	.15	.62	.52	.02	.21	.49	.98	.33	.02	.10	1.22	.07								.03	2.58	1.92	.05	*	*	*			
RESERVOIR 6 1004	A	12.92	*	*	*	.22	.15	.62	.52	.02	.21	.49	.98	.33	.02	.10	1.22	.07								.03	2.58	1.92	.05	*	*	*			
WAIHANA 930	A	9.74	*	*	*	.76	1.98	.06	.30	.07	*	*	.87	1.15	.88	.36	.26	*	*	1.30		.02	.26	.24	.18		.03	2.58	1.92	.05	*	*			
WAIHANA MOUNTAIN 990	A	20.25	*	*	*	.04	.34	.27	.26	.13	*	*	1.24	.57	.90	.08	.20	*	*	1.73							.02	2.21	.01	*	*	20.25			
WAIHANA MOUNTAIN 990	A	20.25	*	*	*	.04	.34	.27	.26	.13	*	*	1.24	.57	.90	.08	.20	*	*	1.73							.02	2.21	.01	*	*	20.25			
WAIHANA MOUNTAIN 990	A	20.25	*	*	*	.04	.34	.27	.26	.13	*	*	1.24	.57	.90	.08	.20	*	*	1.73							.02	2.21	.01	*	*	20.25			
WAIHANA MOUNTAIN 990	A	20.25	*	*	*	.04	.34	.27	.26	.13	*	*	1.24	.57	.90	.08	.20	*	*	1.73							.02	2.21	.01	*	*	20.25			
WAIHANA MOUNTAIN 990	A	20.25	*	*	*	.04	.34	.27	.26	.13	*	*	1.24	.57	.90	.08	.20	*	*	1.73							.02	2.21	.01	*	*	20.25			
WAIHANA MOUNTAIN 990	A	20.25	*	*	*	.04	.34	.27	.26	.13	*	*	1.24	.57	.90	.08	.20	*	*	1.73							.02	2.21	.01	*	*	20.25			
WAIHANA MOUNTAIN 990	A	20.25	*	*	*	.04	.34	.27	.26	.13	*	*	1.24	.57	.90	.08	.20	*	*	1.73							.02	2.21	.01	*	*	20.25			
WAIHANA MOUNTAIN 990	A	20.25	*	*	*	.04	.34	.27	.26	.13	*	*	1.24	.57	.90	.08	.20	*	*	1.73							.02	2.21	.01	*	*	20.25			
WAIHANA MOUNTAIN 990	A	20.25	*	*	*	.04	.34	.27	.26	.13	*	*	1.24	.57	.90	.08	.20	*	*																

DAILY PRECIPITATION

HAWAII
JANUARY 1971

		JANUARY 1971																																
		Day of Month																																
Station	Foot	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
MAHUKOHA	A	10.51	*	*	*	.03	.15	1.76	.35	T	*	1.86	.30	.28	.68	.30	*	*	2.10	.04	.16	.15	.04	*	*	.02	.06	1.01	1.22					
MAHUKOHA	A	11.51	*	*	*	.06	.22	1.95	.37	.02	.01	1.52	.28	.09	1.13	.20	.96	*	1.71	.05	.45	.14	*	*	*	.09	.78	1.20	.02	.26	*	*		
MAHUKOHA	A	1.37	*	*	*	.86	*	*	*	*	*	*	*	*	9.40	*	*	*	*	*	*	*	*	*	*	7.11	*	*	*	*	*	*		
ISLAND OF LANAI																																		
LANAI	A	13.01	*	*	*	.05	*	2.44	*	*	*	.18	*	.47	2.50	*	*	*	1.91	*	*	3.47	*	*	*	*	*	*	*	*	5.20	*		
LANAI	A	10.24	*	*	*	.80	*	.80	*	*	*	.18	*	.69	.76	1.00	*	*	1.91	*	*	.28	.12	.01	.01	*	.01	.02	3.90	1.30	5.60	*		
LANAI	A	16.90	*	*	*	1.04	2.54	.40	.01	*	*	.74	1.37	.89	.76	1.00	*	*	2.70	*	*	.28	.12	.01	.01	*	.01	.02	3.90	1.30	5.60	*		
LANAI	A	15.60	*	*	*	.37	.73	*	*	*	*	.36	*	.36	*	*	*	*	*	*	*	4.50	*	*	*	*	*	*	4.30	*	3.31	*		
LANAI	A	19.47	*	*	*	.37	.73	*	*	*	*	.36	*	.36	*	*	*	*	*	*	*	4.50	*	*	*	*	*	*	4.30	*	3.31	*		
LANAI	A	13.72	*	*	*	2.40	*	*	*	*	*	*	*	3.51	*	*	*	*	*	*	1.71	*	*	*	*	*	*	1.20	*	4.90	8.31	*		
LANAI	A	15.16	*	*	*	2.40	*	*	*	*	*	*	*	3.51	*	*	*	*	*	*	1.71	*	*	*	*	*	*	1.20	*	4.90	8.31	*		
ISLAND OF MAUI																																		
MAUI	A	19.31	*	*	*	.04	.14	2.11	1.35	.43	.32	.66	*	.06	.02	.27	.83	.15	2.34	.40	.05	.60	*	*	*	.40	4.15	1.32	4.40	.41	.05	*		
MAUI	A	14.76	.01	*	*	.08	.34	2.55	1.32	.43	.32	.66	*	.06	.02	.27	.83	.15	2.34	.40	.05	.60	*	*	*	.40	4.15	1.32	4.40	.41	.05	*		
MAUI	A	14.04	*	.01	*	.08	.34	2.55	1.32	.43	.32	.66	*	.06	.02	.27	.83	.15	2.34	.40	.05	.60	*	*	*	.40	4.15	1.32	4.40	.41	.05	*		
MAUI	A	33.89	*	.01	T	1.02	4.07	2.02	*	1.03	.08	.07	.08	.06	.21	4.60	3.50	.20	.32	.25	.02	T	T		.12	.50	7.95	8.30	.02	.03	*	*		
MAUI	A	28.23	*	.01	T	1.02	4.07	2.02	*	1.03	.08	.07	.08	.06	.21	4.60	3.50	.20	.32	.25	.02	T	T		.12	.50	7.95	8.30	.02	.03	*	*		
MAUI AIRPORT																																		
MAUI	A	17.75	*	*	*	.37	.49	1.83	1.12	T	.47	.29	T	.02	.52	.50	.77	1.72	.46	.08	.47	.13	.04	*	*	T	.29	5.18	1.18	.03	.26	*		
MAUI	A	17.85	*	*	*	.37	.49	1.83	1.12	T	.47	.29	T	.02	.52	.50	.77	1.72	.46	.08	.47	.13	.04	*	*	T	.29	5.18	1.18	.03	.26	*		
MAUI	A	22.25	*	.12	T	2.15	1.42	.78	1.30	.50	.07	T	.03	.02	.60	.80	3.20	6.30	1.50	.03	.35	.01	*	*	T	.29	5.18	1.18	.03	.26	*			
MAUI	A	27.38	.03	.04	T	.87	.70	.27	.02	2.26	.50	.07	T	.03	.02	.60	.80	3.20	6.30	1.50	.03	.35	.01	*	*	T	.29	5.18	1.18	.03	.26	*		
MAUI	A	24.90	T	*	*	3.15	1.48	.84	.88	.57	.17	.12	.99	1.72	1.46	1.04	.17	3.73	2.10	T	.79	*	*	*	*	T	.29	5.18	1.18	.03	.26	*		
MAUI AIRPORT																																		
MAUI	A	47.05	*	*	17.00	*	*	*	*	7.00	*	*	*	*	*	23.00	*	*	.65	*	*	*	*	*	*	*	*	*	2.52	1.94	1.45	*		
MAUI	A	11.40	*	*	*	.12	.55	1.20	.05	.02	.02	.02	.19	.45	.21	*	3.21	.49	.27	.26	.04	*	*	*	.03	2.56	3.13	*	.09	*	*			
MAUI	A	13.51	*	*	*	.06	.80	.92	.75	T	.05	T	.03	.45	.45	.12	.13	1.45	.17	.09	T	.02	*	*	.02	.04	3.06	2.28	.05	.05	*	*		
MAUI	A	10.90	*	*	*	.06	.80	.92	.75	T	.05	T	.03	.45	.45	.12	.13	1.45	.17	.09	T	.02	*	*	.02	.04	3.06	2.28	.05	.05	*	*		
MAUI	A	10.24	*	*	*	.06	.80	.92	.75	T	.05	T	.03	.45	.45	.12	.13	1.45	.17	.09	T	.02	*	*	.02	.04	3.06	2.28	.05	.05	*	*		
MAUI AIRPORT																																		
MAUI	A	20.38	*	*	.03	.04	1.16	2.33	.06	.42	T	*	.01	.24	.54	1.15	.09	.64	.31	.57	.01	.19	*	*	*	1.75	4.06	T	.06	.06	*	*		
MAUI	A	13.68	*	.03	*	.04	1.16	2.33	.06	.42	T	*	.01	.24	.54	1.15	.09	.64	.31	.57	.01	.19	*	*	*	1.75	4.06	T	.06	.06	*	*		
MAUI	A	52.38	*	.03	*	.04	1.16	2.33	.06	.42	T	*	.01	.24	.54	1.15	.09	.64	.31	.57	.01	.19	*	*	*	1.75	4.06	T	.06	.06	*	*		
MAUI	A	17.75	.06	.03	*	.04	1.16	2.33	.06	.42	T	*	.01	.24	.54	1.15	.09	.64	.31	.57	.01	.19	*	*	*	1.75	4.06	T	.06	.06	*	*		
MAUI	A	18.71	.06	.03	*	.04	1.16	2.33	.06	.42	T	*	.01	.24	.54	1.15	.09	.64	.31	.57	.01	.19	*	*	*	1.75	4.06	T	.06	.06	*	*		
MAUI AIRPORT																																		
MAUI	A	20.04	*	*	.04	.92	1.57	1.71	.03	.51	.18	T	T	.25	1.02	.86	.97	.10	1.64	.15	.06	.31	*	*	*	*	2.55	7.12	.05	.05	*	*		
MAUI	A	21.00	*	*	.04	.92	1.57	1.71	.03	.51	.18	T	T	.25	1.02	.86	.97	.10	1.64	.15	.06	.31	*	*	*	*	2.55	7.12	.05	.05	*	*		
MAUI	A	14.85	*	*	.04	.92	1.57	1.71	.03	.51	.18	T	T	.25	1.02	.86	.97	.10	1.64	.15	.06	.31	*	*	*	*	2.55	7.12	.05	.05	*	*		
MAUI	A	17.31	.11	.01	.01	1.03	1.80	.95	.02	.30	.05	.22	.04	.16	.04	.18	1.18	.02	.12	.23	.29	.29	.16	.01	.01	.01	.01	1.50	10.00	.15	.15	*	*	
MAUI	A	18.25	.11	.01	.01	1.03	1.80	.95	.02	.30	.05	.22	.04	.16	.04	.18	1.18	.02	.12	.23	.29	.29	.16	.01	.01	.01	.01	1.50	10.00	.15	.15	*	*	
MAUI AIRPORT																																		
MAUI	A	14.59	*	.03	.13	.37	1.86	2.42	.18	.60	.13	.34	.02	.40	1.66	1.25	1.90	.13	.23	.19	.03	.01	*	*	.01	.01	.01	.01	1.97	4.34	.04	.04	*	*
MAUI	A	22.75	.03	.13	.37	1.86	2.42	.18	.60	.13	.34	.02	.40	1.66	1.25	1.90	.13	.23	.19	.03	.01	*	*	.01	.01	.01	.01	1.97	4.34	.04	.04	*	*	
MAUI	A	10.42	*	.03	.13	.37	1.86	2.42	.18	.60	.13	.34	.02	.40	1.66	1.25	1.90	.13	.23	.19	.03	.01	*	*	.01	.01	.01	.01	1.97	4.34	.04	.04	*	*
MAUI	A	16.45	*	.03	.13	.37	1.86	2.42	.18	.60	.13	.34	.02	.40	1.66	1.25	1.90	.13	.23	.19	.03	.01	*	*	.01	.01	.01	.01	1.97	4.34	.04	.04	*	*
MAUI	A	12.10	*	.03	.13	.37	1.86	2.42	.18	.60	.13	.34	.02	.40	1.66	1.25	1.90	.13	.23	.19	.03	.01	*	*	.01	.01	.01	.01	1.97	4.34	.04	.04	*	*
MAUI AIRPORT																																		
MAUI	A	16.80	*	.03	.13	.37	1.86	2.42	.18	.60	.13	.34	.02	.40	1.66	1.25	1.90	.13	.23	.19	.03	.01	*	*	.01	.01	.01	.01	1.97	4.34	.04	.04	*	*
MAUI	A	13.17	*	.03	.13	.37	1.86	2.42	.18	.60	.13	.34	.02	.40	1.66	1.25	1.90	.13	.23	.19	.03	.01	*	*	.01	.01	.01	.01	1.97	4.34	.04	.04	*	*
MAUI	A	13.65	*	.03	.13	.37	1.86	2.42	.18	.60	.13	.34	.02	.40	1.66	1.25	1.90	.13	.23	.19	.03	.01	*	*	.01	.01	.01	.01	1.97	4.34	.04	.04	*	*
MAUI	A	10.91	*	.03	.13	.37	1.86	2.42	.18	.60	.13	.34	.02	.40	1.66	1.25	1.90	.13	.23	.19	.03	.01	*	*	.01	.01	.01	.01	1.97	4.34	.04	.04	*	*
MAUI AIRPORT																																		
MAUI	A	16.03	*	.03	.13	.37	1.86	2.42	.18	.60	.13	.34																						

DAILY PRECIPITATION

Continued

HAWAII
JANUARY 1971

		JANUARY 1971																																	
Station	Total	Day of Month																																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
KOHALA MAULILI 176	A 16.51	•	•	•	.60	.12	.85	2.70	.16	•	1.56	.01	.08	.01	•	•	.25	3.58	1.15	.06	.03	•	•	•	•	•	•	•	•	•	•	.73	4.62	•	•
KOHALA MISSION 175.1	A 16.92	•	.25	•	•	.14	.85	2.31	.14	.76	.73	.06	.03	.07	T	•	.14	.10	4.49	1.07	.14	.02	•	•	•	•	•	•	.01	•	.78	4.82	.01	•	
KOIAHE LOWER 196	A 10.81	•	•	•	•	1.30	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
KONA (KAILUA) 68.3	A 11.14	•	•	•	•	.56	.71	.19	•	•	1.10	.02	•	•	•	•	•	.34	.69	2.69	.37	T	•	•	•	•	•	•	•	•	•	•	5.80	4.15	•
KONA VILLAGE 93.8	A 15.32	•	•	•	1.50	2.10	•	3.20	.15	.35	•	•	.02	•	•	•	.03	•	.65	.72	•	•	•	•	•	•	•	•	•	•	6.60	.02	•	•	
KUKAIAU 222	A 8.13	T	•	•	.04	•	•	.11	.24	.55	1.04	.03	•	•	•	•	•	.01	2.00	1.02	1.34	.05	.77	T	•	•	•	•	•	•	.11	.51	.31	•	
KUKUIHALE MIC 199	A 11.16	•	•	•	•	.62	•	.51	1.40	.52	.07	•	•	•	•	•	•	•	.44	2.10	1.94	.72	.15	.02	•	•	.02	•	•	•	.32	2.13	•	•	
KUKUIHALE MILL 206	A 10.46	•	•	•	•	.20	.64	.01	•	•	1.64	•	•	•	•	•	•	.45	3.15	1.50	.69	.05	•	•	•	•	.02	.02	•	•	.37	1.73	.01	•	
KULANI CAMP 79	A 21.66	•	.08	•	.05	.12	•	.03	4.90	.85	.04	•	•	.10	.19	•	.08	.39	4.71	.40	2.35	.01	.03	.17	•	•	•	•	•	5.24	1.57	.02	.33	•	
KULANI MAUKA 76	A 5.55	•	•	•	.12	•	•	•	1.93	.03	.24	•	•	•	•	•	•	•	.06	1.81	.15	•	•	•	•	•	•	•	•	.89	•	.03	.06	•	
KULANI SCHOOL SITE 78	A 19.42	•	7.84	•	•	•	•	•	4.00	•	•	•	•	•	•	•	.90	•	•	•	•	•	3.55	•	•	•	•	•	•	•	•	3.13	•	•	
LANIHAU 68.2	A 20.07	•	•	•	•	.85	1.46	4.50	.55	.13	.05	•	.10	•	.09	•	.48	.15	.87	3.05	.78	•	•	•	•	•	•	•	•	•	.88	6.10	.03	•	
MAUKA 2	A 14.83	•	.68	•	.68	.94	.16	.38	.27	•	.07	T	•	•	•	•	•	4.22	.15	1.45	.13	.61	•	•	•	.75	•	•	.62	2.22	1.50	•	•		
MAUNA KEA BEACH 98	A 6.97	•	•	•	•	•	•	.09	.06	.02	2.21	.23	•	•	•	•	•	•	.03	.50	.19	1.03	•	•	•	•	•	•	•	.67	.81	•	1.13	•	
MAUNA LOA SLOPE 085	A 6.97	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
MIDDLE MAUWALOA 68.1	A 15.73	•	•	•	•	•	.60	1.35	•	•	4.63	•	•	•	•	•	•	.55	•	1.75	•	1.65	•	•	•	•	•	•	•	•	5.20	•	•	•	
MIDDLE PEN 147.1	A 13.50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	5.50	•	•	•	•	•	•	•	•	•	•	•	•	•	8.00	•	•	
MOAULA 18	A 21.10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	21.10	•	•	
MOUNTAIN VIEW 91	A 17.06	•	•	•	•	.05	.01	.02	5.69	1.89	.32	.07	.13	•	•	•	.02	1.63	.40	2.39	.21	.10	•	•	•	•	•	•	•	2.89	1.13	.08	.10	•	
MAALEMU 14	A 22.63	•	.19	•	.31	.65	•	5.78	1.55	.83	.07	.06	T	.43	1.30	1.11	3.16	.97	1.38	.11	1.63	•	•	•	.09	T	•	•	2.08	.83	•	.10	•		
NAPODOPOD 28	A 9.20	•	•	•	•	•	•	•	•	5.09	•	•	•	•	•	•	•	.92	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
NAULU FOREST 38.6	A 32.64	•	•	•	•	•	T	.32	.02	1.80	.97	.52	.61	.17	.21	.47	1.18	5.04	1.52	2.70	.30	.04	.16	T	•	•	•	•	•	4.85	1.76	T	•	•	
NIULI 179	A 17.94	•	•	.70	.03	1.16	.38	.36	1.17	.84	.53	.04	•	•	•	•	.31	5.98	1.02	.08	.05	•	•	•	•	•	•	•	•	.55	3.77	•	•	•	
OWAIA 223	A 10.59	•	.10	.09	T	.38	.36	1.17	.84	.53	•	•	•	•	•	•	2.18	1.48	1.01	.62	.40	.05	•	•	•	•	•	•	•	.10	.84	.36	.05	•	
OPIMAHLE 2 24.1	A 12.33	T	•	•	.04	1.08	.23	T	1.57	1.33	.35	T	.11	T	.26	.10	.15	.53	.42	1.06	.01	•	•	•	•	•	•	•	2.51	2.55	.01	.01	.01	•	
ORCHID LAND EST 91.5	A 21.99	•	•	•	•	•	•	•	1.96	•	•	•	•	•	•	•	•	•	•	•	•	5.95	•	•	•	•	•	•	•	•	•	4.16	•	•	•
PAAHU 217	A 7.77	•	•	•	.19	•	•	.31	.54	.60	.01	•	•	•	•	•	•	.52	1.16	2.20	.33	.43	•	•	•	•	•	•	•	.35	1.10	.03	•	•	
PAALUO 221	A 6.95	T	•	•	.03	•	.09	.10	.40	.94	.02	•	•	•	•	•	.01	1.23	1.25	1.17	.04	.79	T	•	•	•	•	•	•	.26	.53	.09	•	•	
PANALA 21	A 20.75	•	•	•	.08	.16	.24	•	•	8.78	.04	.41	•	•	•	•	.30	1.03	1.45	.34	.80	•	•	•	.05	•	•	•	•	3.47	2.60	•	•	•	
PANDA 65	A 36.54	•	•	•	.04	.04	•	.12	1.38	4.12	.69	.17	.15	•	•	•	.07	6.81	1.16	2.26	.06	.05	.65	•	•	•	•	•	.04	5.06	1.57	.48	.57	•	
PAKAD 37	A 22.10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
PAPAIAKOU 144.1	A 13.87	•	.06	•	T	.07	.04	.04	4.43	2.55	.05	•	•	•	•	•	.02	1.67	.58	1.15	.01	.01	T	•	•	•	•	•	•	2.59	.30	.19	.11	•	
PAPAIAKOU MAUKA 140.1	A 11.87	•	.12	•	.05	.04	T	4.33	1.80	.02	•	•	T	•	•	•	T	1.26	.36	1.37	.05	.23	.15	T	•	•	•	•	•	1.08	.22	.10	.09	•	
PEPEKOE MAKAI 144	A 14.90	•	.01	•	.02	.23	.03	4.02	1.62	.03	•	•	•	•	•	•	.09	2.94	.45	1.73	.05	.01	.42	•	•	•	•	•	.02	2.02	.42	.43	.36	•	
PIMOHUA 89	A 14.40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	4.40	•	
POMAKULOA 107	A 5.88	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.15	.35	.32	•	1.28	•	•	•	•	•	•	•	•	•	1.10	•	•	•
PUAKO 95.1	A 9.85	•	•	•	•	.87	.95	T	1.31	.15	.10	T	T	•	•	•	T	.01	.47	.66	•	•	•	•	•	•	•	•	•	.21	5.12	T	•	•	
PUU KIME 120	A 11.16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1.16	•	
PUU LAU 102.1	A 8.65	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	8.65	•	•	
PUU LEHUA 73	A 18.00	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	8.00	•	•	
PUU MALI 113	A 7.49	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	7.49	•	•	
PUUOKUHAU 167	A 10.85	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
PUU OO 82	A 7.93	T	.12	•	T	•	.09	.01	2.88	.96	.06	.01	1.43	•	•	•	•	.05	.16	1.82	.58	.07	.03	.57	T	•	•	•	•	.18	.25	T	.09	•	
PUU WAHAA 94.1	A 16.40	•	•	•	•	.35	1.55	2.25	.42	.02	.04	•	•	•	•	•	T	.65	2.35	1.53	•	.02	.03	•	•	•	•	•	•	•	.97	6.20	.02	•	•
SADDLE ROAD 1 84	A 10.07	•	•	•	•	•	•	.17	•	•	•	•	•	•	•	•	•	•	•	•	•	2.10	•	•	•	•	•	•	•	•	1.80	•	•	•	•
SOUTH POINT CORRAL 3	A 15.36	•	•	.10	•	•	•	•	•	•	5.45	•	•	3.70	•	•	•	.37	•	•	•	•	•	•	•	•	•	•	•	•	•	•	2.00	•	•
UMIKKA 118	A 6.49	•	•	•																															

DAILY TEMPERATURES

HAWAII
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Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
KANALOHULU 1775	MAX MIN	65 46	64 45	67 48	59 37	61 49	51 46	57 36	52 45	59 36	68 43	61 51	64 54	62 56	62 58	61 57	60 39	68 45	64 38	67 43	62 53	63 59	62 51	65 39	65 41	66 52	62 55	58 54	57 50	60 49	59 35	62 39	61.7 47.0
WILA EA POINT 1133	MAX MIN	77 68	77 67	74 66	75 61	72 60	72 57	77 60	77 61	75 68	81 67	76 69	80 70	74 65	78 65	80 66	72 64	78 65	76 65	78 68	77 65	75 65		73 67	77 66	77 69	77 65	76 65	77 61	75 65	77 61	77 66	76.3 64.9
LIMU WSO 1020.1	MAX MIN	77 63	77 62	75 59	78 59	76 61	70 56	73 53	75 61	77 63	79 59	75 63	76 67	80 68	76 65	81 72	76 65	76 60	78 63	78 65	76 66	76 63	77 58	77 60	78 60	78 65	79 66	79 65	75 65	75 63	79 59	79 67	76.7 62.6
WAKAHUPEPE POINT 947.1	MAX MIN	79 68	81 60	82 63	81 65	82 61	76 56	63 59	76 59	80 63	80 64	84 65	71 71	75 72	81 69	76 64	66 61	79 69	72 64	76 61	75 60	81 66	80 65	73 61	79 65	80 66	82 67	73 65	81 65	80 61	78 59	78 64	78.2 63.9
WANA 1126	MAX MIN	77 63	81 57	83 62	82 61	81 61	72 56	70 56	73 60	75 63	76 62	80 62	73 68	78 69	77 66	79 70	82 55	74 59	76 60	80 60	80 60	80 61	80 61	77 60	78 59	83 63	84 63	81 65	76 63	77 60	76 58	79 59	78.2 61.2
WU RIDGE 1135	MAX MIN	78 59	79 60	78 60	79 54	78 60	76 53	66 53	70 54	72 55	74 57	76 60	77 60	76 59	74 53	77 63	75 60	69 54	70 56	76 55	78 53	77 55	77 56	76 55	79 58	80 63	80 58	77 58	74 57	78 54	77 51	75 67	74.8 56.4
WAIAMI LEWEE 1054	MAX MIN	78 60	77 57	77 56	76 51	74 60	67 48	73 45	73 54	76 56	78 56	74 63	73 64	82 69	71 64	77 68	78 57	77 56	75 53	75 56	74 58	74 59	75 50	78 56	79 58	80 60	80 67	77 66	74 62	78 58	78 60	77 55	76.0 58.1
ISLAND OF OAHU																																	
FWA PLANTATION 741	MAX MIN	79 60	82 55	79 54	80 56	83 61	74 58	70 53	73 52	78 57	73 61	77 61	80 64	77 67	80 64	76 67		81 64	75 66	79 63	79 61	78 61	78 58	77 56	81 61	80 62	82 60	78 61	80 63	69 56	74 54	80 61	77.7 59.9
HONOLULU WSPD 703	MAX MIN	81 64	79 62	79 60	82 62	77 63	73 58	74 55	79 58	75 62	75 66	79 68	79 70	79 70	80 69	80 70	77 66	79 66	80 69	80 67	79 65	79 64	78 62	81 61	81 66	79 66	81 66	81 67	77 64	82 61	81 60	81 67	78.9 64.5
HONOLULU SUBSTA 704	MAX MIN	77 67	75 66	75 64	80 65	74 64	70 60	72 59	77 62	75 64	75 65	77 68	77 67	76 68	76 66	77 69	75 66	73 67	75 68	74 67	74 64	74 64	78 64	78 64	81 69	77 68	76 67	75 68	72 63	75 62	78 65	78 70	75.7 65.6
KAHULU 912	MAX MIN				74 61	82 62	73 60	71 56	72 53		80 56	78 63	81 68	78 67				82 65	77 68	76 66	76 66							79 58	78 60	83 62	71 57		
KANEHE PAUKA 781	MAX MIN	76 64	77 62	76 64	78 61	80 59	72 58	69 56	73 58	75 61	74 64	74 62	75 60	78 67	76 68	76 68	77 66	73 65	68 65	68 64	72 64	75 61	76 60	78 61	78 64	80 65	87 66	79 64	68 65	75 60	78 62	78 60	75.4 63.3
LUALUALEI 804	MAX MIN	79 64	81 61	79 58	80 58	80 67	73 58	72 53	75 57	76 62	76 63	78 60	77 69	76 69	75 70	74 71		78 66	79 63	79 66	78 67	78 67	77 61	79 66	78 68	79 58	79 63	79 64	76 64	71 60			77.1 63.4
WAKARU POINT 724	MAX MIN	73 66	74 62	72 63	76 64	73 60	72 58	67 54	71 51	70 63	72 63	71 64	73 69	76 66	73 64	73 69	66 64	74 63	68 63	70 65	71 63	73 65	73 63	76 65	74 67	75 63	75 65	75 63	69 63	72 59	72 66	72 66	72.6 63.1
OPAEULA 870	MAX MIN				78 56	76 58	66 56	69 52	71 53		71 59	71 61	71 63	71 66	74 64	72 64		71 61	67 61	67 61	74 61	75 61	75 61	74 59	78 56	79 62	81 61	75 62	74 60	66 57	76 56		73.1 59.6
RR1 WAIHANA 820.2	MAX MIN	76 59	79 54	76 54	81 53	79 56	70 56	74 51	71 50	74 51	68 60	76 50	74 61	79 66	74 63	74 65	74 64	80 62	87 63	76 60	76 59	75 59	68 57	78 54	80 60	81 54	75 58	76 62	66 55	72 52	76 58	75.3 57.6	
WAILAUA 847	MAX MIN	78 59	78 58	79 56	76 64	82 61	73 56	70 50	71 51	79 56	75 53	78 58	78 67	78 66	80 69	77 68	78 70	78 65	70 64	79 59	79 58	75 58	75 62	76 61	81 62	79 61	79 60	80 62	79 61	73 56	75 57	79 53	76.8 60.1
WAIKIKI 717.2	MAX MIN	85 65	84 58	81 57	84 59	84 58	76 53	78 53	79 58	82 59	77 67	79 66	81 68	80 71	83 70	78 69	82 66	78 66	80 66	81 67	82 65	82 65	80 59	82 58	83 63	83 65	84 64	82 71	83 64	70 58	82 56	81 59	80.6 63.4
WAIWANALO EXP FARM	MAX MIN	77 66	79 62	78 60	79 61	82 64	75 59	73 55	75 56	76 60	76 65	75 66	78 68	77 70	77 68	77 69	76 71	74 65	74 64	78 65	78 66	78 65	77 60	76 59	78 62	77 64	77 62	77 64	75 58	78 56	77 62	77 62	76.5 62.9
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	76 64	77 64	77 71	75 67	78 69	71 62	77 57	70 57	77 61		71 67	75 67	74 70	77 69	74 69	76 70	74 65	76 66	70 65	75 64	77 65	74 62	75 59	79 62	80 64	76 61	77 65	77 65	66 58	75 58	77 61	75.1 64.1
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN	73 57	71 57	69 59	70 56	68 63	65 57	67 53	68 50	71 54	67 58	70 61	68 62	70 63	70 65	69 65	68 66	68 65	71 61	68 62	68 62	69 55	70 54	77 57	75 57	72 60	76 62	76 60	71 57	61 54	75 59	77 59	70.3 59.0
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	57 34	59 33	63 39	62 33	53 34	43 39	45 31	54 34		51 43	55 42	55 42	60 46	55 49	58 47	55 46	54 48	55 48	56 45	56 36	54 36	53 36	53 36	55 39	61 42	60 49	57 40	53 44	50 40	50 31	55 35	54.5 39.3
HALEAKALA SUMMIT 338.4	MAX MIN				52 41									41 32	46 38	46 38				44 37	45 37	44 30				46 36	49 36	48 31					
HANA AIRPORT 355	MAX MIN	78 61	77 52	78 59	80 58	73 50	72 58	72 52	75 51	71 60	78 63	78 59	80 58	76 63	80 58	80 61	80 63	73 66	71 60	75 57	76 60	75 57	79 55	79 59	79 64	80 60	83 61	83 63	74 64	76 59	78 61	78 68	76.7 60.1
KAHANAPALI AIRPORT	MAX MIN		78 61	76 60	77 65	77 68	76 61	71 57	73 58	75 56	74 55	79 62	77 60	77 66	77 63	77 66	76 66	77 63	76 63	74 66	78 63	76 63	76 63	75 60	78 59	80 59	79 62	77 55	79 63	69 65	75 60	77 58	77 62
KAHULUI WSO 398	MAX MIN	79 56	77 54	77 57	80 55	76 66	71 58	73 54	77 52	75 61	79 61	76 70	78 69	77 71	79 71	78 72	80 70	76 69	73 69	76 66	77 61	77											

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

HAWAII
JANUARY 1971

Station		Day of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
LAHAINA 361	MAX MIN	83 62	83 60	81 61	82 62	82 66	74 63	72 56	76 58	79 62	75 64	80 67	76 69	78 68	79 70	76 69	75 67	75 66	81 68	82 67	81 62	82 62	80 59	78 60	82 61	82 62	83 65	81 67	82 64	68 60	81 59	83 65	79.1 63.5	
WAILUKU 386	MAX MIN					80 70	80 68		79 56	73 55		81 56	75 67	78 69	74 69	76 69				77 67	70 66	73 63	74 60	74 56		78 58	80 63	82 64	76 66	68 58				
* * *																																		
ISLAND OF HAWAII																																		
HAINA 214	MAX MIN	78 60	74 60	75 60	76 59	79 60	81 61	72 60	72 59	75 61	69 62	79 63	75 62	79 63	78 65	80 64	85 68	81 65	77 64	75 64	74 59	75 60	76 59	78 59	78 61	78 61	79 61	79 61	78 61	79 59	75 62	77 62	78 61	76.9 61.5
HAWAII VOLCAN NP HO 54	MAX MIN	62 47	67 42	67 47	68 54	66 51	63 47	66 45	63 50	68 53	58 52	66 53	60 54	66 54	67 55	68 57	62 58	63 59	66 57	62 58	59 55	65 44	65 50	67 49	65 51	68 48	69 51	70 55	64 56	63 52	67 46	69 54	65.1 51.4	
HILO WSO 87	MAX MIN	81 61	78 58	80 60	82 64	82 62	79 59	78 60	78 58	71 64	79 64	79 63	82 60	81 63	81 62	83 63	86 63	80 69	78 66	76 66	81 62	78 59	83 60	82 61	80 61	81 61	81 60	87 62	79 68	79 65	81 62	81 64	80.2 62.4	
KAINALIU 73.2	MAX MIN	75 56	74 55	75 56	64 58	78 61	71 61	74 56	71 56	71 61	67 61	76 62	72 61	75 63	76 64	76 65	67 63	77 66	78 62	72 63	71 57	72 55	73 59	74 58	76 58	76 57	77 60	77 63	78 66	73 61	74 58	75 62	74.0 60.1	
KAMUELA 192.2	MAX MIN	68 50	73 50	68 53	72 42	72 45	69 50	70 42	69 45	70 50	70 54	72 53	69 49	72 52	73 59	71 59	76 60	75 62	73 58	72 57	72 53	73 42	72 73	73 72	73 72	75 73	74 72	76 51	69 56	73 55	75 56	72.0 52.1		
KEAAU 92	MAX MIN	78 58	78 58	78 58	78 58	81 61	84 61	77 61	75 59	75 59	80 59	79 63	78 62	81 63	80 63	83 63	85 63	85 67	77 67	80 66	70 58	78 62	77 60	80 62	79 62	79 60	80 60	80 60	84 64	78 64	80 62	80 62	79.3 61.3	
KEALAKEKUA 26.2	MAX MIN	75 57	75 58	76 56	75 59	77 63	71 60	69 56	71 57	71 61	68 63	76 61	72 62	73 63	75 64	75 65	75 66	77 67	74 63	71 64	74 57	76 56	74 60	75 59	76 59	77 59	77 61	77 62	77 64	72 61	74 59	75 62	74.0 60.8	
KOHALA MISSION 175.1	MAX MIN	75 61	74 61	73 60	76 58	80 60	76 63	65 58	74 58	71 60	67 62	77 64	77 63	78 64	76 69	78 70	81 73	79 68	76 66	71 66	72 60	74 61	75 60	76 61	77 62	76 62	79 62	78 62	83 62	75 60	77 60	77 61	75.6 62.5	
KONA (KAILUA) 68.3	MAX MIN				81 68	81 69	77 66	74 61	78 66	73 60		82 65	79 67	81 69	79 70	80 71				82 68	78 67	75 63	76 62	79 63			81 63	82 67	81 68	82 76	78 64			
KULANI CAMP 79	MAX MIN	55 33	54 34	63 36	55 43	62 46	61 38	64 41	58 40	61 46	61 46	62 50	60 47	68 50	65 48	70 48	63 53	61 55	63 51	65 51	59 49	60 39	68 40	65 40	58 43	63 43	66 44	65 45	65 45	62 46	60 45	64 45	62.1 44.7	
MAUNA LOA SLOPE DBS	MAX MIN	47 27	50 28	50 28	52 31	41 29	34 26	33 30	41 30	38 31	44 30	45 30	48 32	47 35	50 36	45 36	50 46	47 36	50 47	42 31	38 22	43 20	46 19	48 23	48 25	47 28	44 32	41 32	38 23	36 25	42 32	43 32	44.0 29.1	
MOUNTAIN VIEW 91	MAX MIN	74 54	74 54	74 54	74 54	76 58	76 55	75 55	69 56	73 57	73 57	73 59	77 61	77 60	80 63	79 63	79 63	79 63	79 63	74 63	66 58	73 54	72 53	76 56	76 56	76 55	76 55	75 58	78 60	71 60	76 56	76 56	74.9 57.5	
NAALEHU 14	MAX MIN	74 62	78 58	78 58	78 58	76 64	75 64	77 58	78 61	78 61	80 62	80 62	71 63	75 64	78 66	78 69	78 66	78 66	78 66	74 65	70 61	74 60	75 60	75 60	77 62	77 61	79 62	78 68	77 63	77 63	78 63	78 63	76.7 62.6	
UOKALA 223	MAX MIN	76 62	76 60	76 61	76 61	78 61	80 60	71 62	71 59	65 60	72 62	79 64	76 62	79 64	81 65	84 66	85 64	82 64	75 65	73 59	73 59	74 62	74 58			78 65	78 65	79 62	80 63	76 61	75 60	78 60	76.6 61.6	
OPIHIHALE 2 24.1	MAX MIN	72 53	73 52	74 53	76 54	75 57	71 54	70 54	73 55	67 58	76 60	73 59	73 61	75 61	76 63	77 65	79 65	76 62	74 63	70 59	70 53	71 52	73 53	76 55	76 55	75 55	78 55	82 55	73 61	74 54	73 61	77 61	74.1 57.3	
PAHALA 21	MAX MIN				78 55	79 59	80 61	82 58	77 58			81 59	71 62	80 62	83 63				81 66	74 65	69 58	73 58	77 58			79 58	79 60	79 59	78 66	79 66				
PUAKO 95.1	MAX MIN	82 62	80 63	82 62	80 61	84 63	82 63	78 65	75 60	73 61	70 65	80 62	79 60	81 65	81 63	83 68	85 72	82 68	82 67	77 62	76 60	82 58	78 60	80 62	80 63	81 61	80 62	81 62	87 60	78 63	80 60	83 59	80.0 62.2	
UPOLU POINT USCG 159.2	MAX MIN	80 64	81 66	77 62	77 64	80 65	73 67	76 62	75 61	77 64	73 64	72 62	79 64	82 66	80 64	80 64	81 69	79 72	80 65	78 67	77 63	75 63	78 66	80 64	80 65	80 65	82 67	81 69	82 71	75 64	78 69	79 69	78.4 66.0	
WAINEA KOHALA	MAX MIN	68 41	68 38	70 38	70 40	72 50	69 52	64 49	64 43	64 42	70 40	70 52	70 47	70 54	73 57	70 52	74 55	75 57	74 55	70 57	68 46	70 43	73 46	72 44	72 48	72 48	73 47	75 58	69 53	72 44	73 47	70.4 48.1		

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1	EVAP	.25	.00	.24	.17	.33	.23	.13	.11	.10	.14	.21	.03	.00	.10	.15	.17	.06	.17	.18	.14	.17	.17	.17	.15	.20	.21	-	-	.35	.14	.18	4.978
	WIND	153	47	73	10	160	97	55	58	84	62	77	107	137	66	272	199	52	68	72	131	113	83	60	67	74	55	129	180	98	66	88	2993
	MAX	78	77	77	80	82	79	71	75	75	74	78	70	70	79	72	73	71	78	74	74	76	73	77	80	80	81	73	81	73	75	75	75.8
	MIN	62	56	55	54	53	50	46	47	55	57	57	61	64	62	61	63	56	54	64	60	62	59	52	55	60	59	59	58	51	52	52	56.6
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.15	.21	.17	.15	.16	.29	.03	.15	.15	.01	.14	-	.14	.06	.13	.20	.05	.11	.12	.13	.13	.17	.10	.15	.08	.15	.07	-	.03	.16	.02	3.868
	WIND	26	14	18	14	113	50	13	22	27	57	28	50	72	52	105	138	16	33	18	16	32	26	11	16	17	14	57	100	35	20	21	1231
	MAX	82	82	79	81	79	73	73	72	79	69	74	80	76	78	76	80	69	77	62	78	81	80	77	84	80	82	78	78	65	80	81	77.6
	MIN	60	57	55	56	58	57	64	53	54	58	62	63	67	67	66	66	63	63	62	59	59	60	58	57	63	62	62	63	56	55	55	60.0

See Reference Notes Following Station Index

STATION INDEX

MAWAI
JANUARY 1971

STATION										OBSERVATION TIME AND TABLES										OBSERVER										STATION										OBSERVATION TIME AND TABLES										OBSERVER									
INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LONGITUDE	ELEVATION	TEMP	PRECIP	EVAP	SPECIAL	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LONGITUDE	ELEVATION	TEMP	PRECIP	EVAP	SPECIAL	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LONGITUDE	ELEVATION	TEMP	PRECIP	EVAP	SPECIAL	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LONGITUDE	ELEVATION	TEMP	PRECIP	EVAP	SPECIAL																				
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STATION INDEX

HAWAII
JANUARY 1971

CONTINUED

JANUARY 1971																									
STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL										TEMP	PRECIP	EVAP	SPECIAL	
ISLAND OF HAWAII																									
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA	PUU MALI 113	A 8515	01	HAKAUA	1	19 59	155 26	6900					KUHAIU RANCH CO
NAULU FOREST 38.6	6793	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK	PUUDUHAI 167	A 8548	06	N KONA	2	20 12	155 50	1800		7A			KONA DITCH CO LTD
NIULI 179	A 8806	01	N KONA	2	20 14	155 45	78		6A			KONA SUGAR CO	PUU OO 82	A 8550	02	S HILO	2	19 44	155 23	8340		7A			DOH WINTERS
OKALA 223	7131	02	N HILO	2	20 01	155 17	430		7A			LAUPAHEHE SUGAR CO	PUU MAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520					OLLINGHAM RANCH INC
OPIMHALE 2 24.1	7186	04	S KONA	2	19 34	155 53	1270		7A			LAUPAHEHE SUGAR CO	SADDLE ROAD 84	A 8590	02	S HILO	2	19 42	155 12	2340					ROAD OF WTR SUPPLY
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY	SOUTH POINT CORRAL 3	A 8575	02	KAU	3	18 57	155 41	500					HAWAIIAN RANCH COMPANY
PAUHAU 217	7204	01	HAKAUA	1	20 05	155 26	415		7A			PAUHAU SUGAR CO	UMIKOA 118	8780	01	HAKAUA	1	19 59	155 23	3420					KUHAIU RANCH CO
PAULILO 221	7312	01	HAKAUA	1	20 03	155 22	800		7A			HAKAUA MILL CO	UPOLU POINT USCG 159.2	8830	01	N KONA	1	20 19	155 59	61		8A			U S COAST GUARD
PAHALA 21	A 7421	08	KAU	3	19 12	155 29	870		8A	6A		HAWAIIAN SUGAR CO	WAIKAEA SCO 88.2	9025	02	S HILO	2	19 40	155 08	1050					SHINICHI KANESHIRO
PAHOA 65	A 7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY	WAIKAEQUOLA 178.6	9350	01	N KONA	1	20 08	155 47	3830					KAHUA RANCH
PAKAD 37	A 7643	08	KAU	3	19 22	155 28	5000					HAWAIIAN RANCH CO. INC.	WAIKAEA KONA	9554	05	S KONA	5	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
PAPAIKOU 144.1	7711	02	S HILO	1	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.													
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.													
PEPEKEO MAKA 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEPEKEO SUGAR CO.													
PELOHUA 89	A 8051	02	S HILO	2	19 44	155 10	1730					STATE DIV OF FORESTRY													
POHAKULUA 107	A 8063	02	HAKAUA	2	19 45	155 32	6511					STATE DIVISION OF PARKS													
PJAKU 95.1	A 8186	05	KONA	5	19 59	155 50	5		8A	VAR		ERWIN H. RAPP													
PUU KIME 120	A 8393	01	HAKAUA	1	19 54	155 24	7750					KUHAIU RANCH CO													
PUU LAU 102.1	A 8452	05	HAKAUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME													
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880					GREENWELL RANCH													

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are term of degree. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 5-8 inches above the pan.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELATED DATA AND CORRECTIONS: will be carried only in the June and December issue of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- + No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- And also on an earlier date or date.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletin for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly, usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- W2 Gage read weekly and last day of month.
- Thermometers are generally exposed in a shelter located a few feet above and covered ground, however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

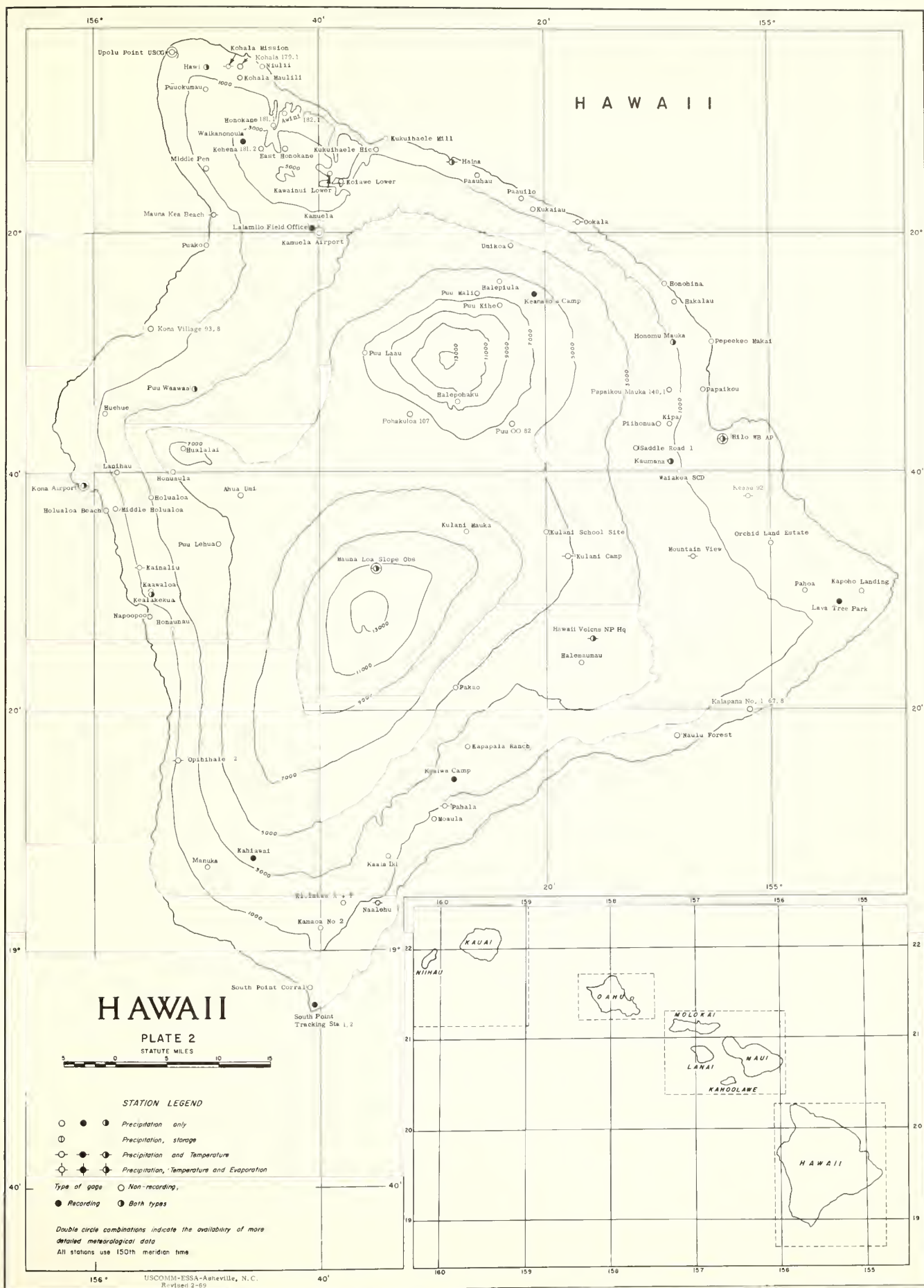
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual: \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMW-HUAA-ASHEVILLE-4/27/71-890



DIVISIONAL DATA

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 19

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
FEBRUARY 1971

Continued

continued

Station	Temperature											Precipitation															
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max.		Min.						Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										10° or Above	32° or Below	32° or Above	0° or Below														
										10° or Above	32° or Below	32° or Above	0° or Below														
KEAAU 92	79.1	62.4	70.8	.5	82	19+	60	25+		0	0	0	0	8.83	- 4.60	2.55	23	.0	0		14	5	3				
KEALAKEUA 26.2	76.4	60.5	68.5		78	27+	59	25		0	0	0	0	2.36		1.68	23	.0	0		3	1	1				
KONA (KAILUA) 68.3	82.4	66.6	74.5		84	17+	64	1		0	0	0	0	.40		.33	2	.0	0		1	0	0				
KUKIHAELE HIC 199														1.24	- 6.07	.60	23	.0	0		4	1	0				
KULANI CAMP 79	62.2	43.6	52.9		66	9+	36	19		0	0	0	0	4.16		1.05	25	.0	0		10	3	1				
PAHALA 21	77.6	61.8	69.7	.9	80	23+	58	11+		0	0	0	0	2.78	- 3.81			.0	0								
POMAKULOA 107														.08				.0	0		0	0	0				
PUNAO 95.1	82.2	62.8	72.5		84	27+	59	13		0	0	0	0	.12		.12	2	.0	0		1	0	0				
PUNAHANA 94.1														.61	- 1.96	.25	2	.0	0								
UMIKOA 118														1.45	- 9.10	.95	23	.0	0		4	1	0				
WAIKAE SC0 88.2														7.28		2.11	25	.0	0		12	6	2				
WAIKAE KOMALA	71.3	47.9	59.6		74	5+	42	21+		0	0	0	0	1.23		1.07	25	.0	0		2	1	1				
ISLAND			67.0											2.59				.0									

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 88° ON THE 20TH AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 26° ON THE 25TH+ AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 11.09 INCHES AT HILO COUNTRY CLUB 86.6, HAWAII

LEAST TOTAL PRECIPITATION: .00 INCH AT 2 STATIONS

GREATEST ONE-DAY PRECIPITATION: 6.25 INCHES ON THE 1ST AT KEONELELE PENS 551, MOLOKAI

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

After 3 consecutive months of varied and at times harsh, wintry weather, February's mildness was a welcomed change. The month's routine was punctuated only by an extended period of volcanic haze, by a minor occurrence of high surf, and by thunderstorms, that brought snow to high mountain peaks and localized hail and strong winds to Hawaii Island. Rainfall for the month was well below normal almost everywhere, in contrast to what had been a very wet January.

Contributing to the mild, dry weather were fronts that dissipated or weakened before reaching the islands (except on the 20th-21st) and the replacement of low pressure areas in the upper atmosphere above or immediately west of Hawaii (except on the 1st, 2d, and 19th-22d) by high pressure and northwesterly winds.

On February 1, thunderstorms accompanying the passage of an upper-level low pressure system ("trough") drenched Kokee, Kauai, with 9.50 inches of rain between 1:55 p.m. and 7:45 p.m. and, in Honolulu, knocked out power in several areas and flooded streets, slowing morning commuter traffic.

After the passage of the upper trough, and in the absence of strong or persistent high pressure to the north or northeast, southerly surface winds cloaked the island chain almost continuously between the 4th and 19th with volcanic haze from an eruption on the southeastern flank of Kilauea Volcano on Hawaii Island, southernmost island of the State.

On the 20th, surf up to 20 feet in height, from an intense storm about 1,500 miles to the northwest,

pounded the northern coasts but did little damage, except to clog the mouth of Oahu's Waimea River with sand, flooding some residential frontage on Waimea Bay.

On the 22d, what appeared to be a weak front passing through the islands, combined with an intensified upper-level low pressure area and fresh trade winds to spawn thunderstorms from Maui through Hawaii Island. At Haleakala Summit, TV relay stations were knocked out for 24 hours by an onslaught of freezing rain, lightning, and gusty winds; also, snow fell to the 7,000-foot level. At about 3:15 p.m., in Hawaii Island's South Kona district, Captain Cook recorded 1.60 inches of rain in 35 minutes, and hail, which a local resident called "as big as small fish," ruined 5 acres of tomatoes and slightly damaged other crops. At about 5:30 p.m. strong thunderstorm winds unroofed two neighboring homes in the Waiakea-Uka section of Hilo and blew down a tree onto Mamalahoe Highway.

Unlike the heavy rainfall of the preceding month, when many stations exceeded their previous record January totals, rainfall was light on all the islands, with only a scattering of gages reporting their normal monthly rainfall or above. Most of what rain there was occurred on a few days -- chiefly, the 1st, 2d, 22d, 23d, and 24th.

The central and southern islands were even drier than the northern. On Lanai and Molokai rainfall was everywhere below the monthly mean, with most gages reading under 40 percent of normal; while on Hawaii Island only 4 gages out of the 70 reporting, reached their normal rainfall for February.

Stations with Less Rain in February 1971
than in Any Previous February

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Least February Total	February 1971
<u>MAUI</u>			
		(Inches)	(Inches)
Honokohau	65	2.90	2.02
Mokupea	72	1.86	1.80

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DAILY PRECIPITATION

HAWAII
FEBRUARY 1971

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																		
ANALUA 111A	A	5.59	4.70		.04								.02	.01	*	*	.04	.05	.25			.13	.04		.06	.10	.73	*	*					
BRUNSWICK STA 985	A	4.48	1.89	.08	.05	.12	.16	*		.01	T				*	*	.03	.03	.01	.03	T	*	*	.76	.50	.57	.19	.02	*	*				
EAST LAHA 934	A	3.50	1.30		.02		.52					.31			*	*	.02	.03	.02			*	*	.26	.46	.35	.06	.13	*	*				
ELELE 927	A	2.55	1.15	.03		T	.17						T		*	*						*	*	.65	.20	.35	T							
HALEAUA 111D	A	5.61	3.50		.03		.37								*	*	.04	.07	.25			*	*	.19	.20	.23	.73	*	*					
HALEMANAHO 1006	A	4.50	2.24	.06	.27	.13	.08	*		.05			.06		*	*	.13	.06	.03			*	*	.47	.27	.26	.39	*	*					
MUKIPO 945	A	1.77	1.05	.18		.18	.23								*	*						*	*	.12										
PULIULUA INTAKE 1050	A	10.80	3.32	.17	.46	.05	.15	*		.05			.03	.04	.01	*	*	.10	.21	.22	.01	.07	*	.70	.65	1.85	1.05	1.48	*	*				
INTAKE WAININA PC 1085	A	11.95	4.00	*				*		.23						*	*						*	.56	.62	.210	*		*					
ANALUJULU 1075	A	5.47	3.23	.06	.19	.03	.12										.02			.03	.07	.03		.08	.90	.33	.33	.05						
LANEWA RESERVOIR 1092	A	8.08	4.10	.06	.07	.37	*			.07						*	.14	.20	.48			.79	.09	.06	.13	.50	1.02	*	*					
KAPAA STABLES 1104	A	4.45	2.44	.04	.05	.10					.01					*	.01	.20	.03				.24	.19	.20	.80		*	*					
KAALIA 1112	A	5.32	3.30		.03	.24										*	.03	.02	.27					.24	.19	.20	.80		*	*				
KEKAHA 944	A	1.24	1.00	.06		.16		*		.02						*	.15	.20	.02				*	.50	.09	.70	.74	.02	*	*				
KLALUA 1134	A	7.30	4.70	.02																														
KLALUA FIELO 17 1135	A	7.73	4.90	.06	.04	.01	.11	*		.04	.01	.01	.01	.01	.05		.20	.20	.07	.01			*	.63	.11	.45	.84	.02	*	*				
KLALUA POINT 1133	A	1.77														.05	.04				.24	.10	.25	.17	.78			.04	.05					
KOLOA 1033	A	2.07	1.65	.09	.13	.06											*	.02	.03	.38	.03		.07				.04							
KOLOA 916	A	3.89	1.26		.12	.05	.53					.04				*	.02	.03	.38					.46	.71	.20	.09							
KOLOA MAUKA 994	A	5.24	1.66	.13	.81	.26	.10	*		.08			.04			*	.23	.07						.49	.38	.57	.42		*					
KOLOA RES 1137	A	8.00	4.60	.02	.01	.24	*			.02		.01	.01	.01		*	.18	.45	.04			*	*	.74	.25	.48	.91	.03	*	*				
KUKUIJUA 935	A	3.22	.88	T	.18	.18	.23	*		.01		.24				*		.51						.27	.57	.13	.02	*						
LIHUE VARIETY STA	A	4.45	2.35	.07	.57	.02	.08									*	.06	.14					.31	.02	.57	.17	.35	.04	*					
LIHUE 1020	A	3.05	1.30	.12	.38	.09	.18									*	.05	.05					.08	.30	.01	.20	.05	.23						
LIHUE WSO 1020.1	//R	1.65	.20	.38	T	.23					T	T	.02	T	T	.10			T	T	.27	T	.05	.10	.34			T						
MAKAHUNA POINT 940.1	A	2.71	1.29	.03	.21	.10	.05	.48	.01				.41									.01	.04	.17	.10	.01	.12	.03	.03		.05			
MAKAHUI 965	A	.71	.07	.01	.02	.21						.07										.04												
MAKAHUI 1020	A	2.18	1.48	.03	.07	.01	.17																											
MOHIMI JPR CROSS 1083	A	1.65	.28	1.01	.18	.09	.09									*	*	*	*	*	*													
MOLDAA 1145	A	5.64	3.98	.01		.07											.11						.36		.21	.14	.76	*	*					
MOUNT WAIALEALE 1047																																		
NIU RIDGE 1035	A	2.76	1.51	.22		.18	.34										.20	.50	.66			.18		1.30	.90	1.30	1.20	1.80	*	*				
N. WAILUA DITCH 1051	A	13.42	4.00	.30	.46	.20	.50									.18	.02				.10		.93	.10	.01	.76	2.18	.48						
PH WAININA 1115	A	6.92	2.23		.01			T										.11	.04					.24	.44	.52	.74	.02						
PRINCEVILLE RANCH 1117	A	4.94	2.83																															
PUEHU RIDGE 1040	A	2.50	1.39	.10		.47	.30															.14					.05	.11						
PUEHU 1013	A	3.35	1.00	.02	.11	.10	.14	*		.02			.06	*		.07	.05	.19						.44	.27	.22	.25		*					
RESERVOIR 6 1004	A	4.28	1.97	.04	.12	.23	.05	*		.02			.02	*		.16	.06	.19						.51	.19	.34	.30	.08	*					
WAIHANA 930	A	3.55	1.11	T	T	T														T	T	.01	*	1.78	.39	.24	.02	*						
WAIHANA MOUNTAIN 990	A	8.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*											
WAIHANA LOWER 1054	A	6.04	2.55	.83	.19	.03	.43			.02				.08	.09	.03	.02			.03	.21	.33	.04	.30	.43	.76	.27	*	*					
WAIHANA UPPER 1052	A	7.85	2.26	.13	.40	.15						.03		.07	.08	.10	.25			.05	.23	.25	.08	.27	.81	1.00	1.49	.10	.10					
WAIHANA 943	A	1.47	1.02	.04		.22	.07															.09												
WAILUA KAI 1065	A	3.60	2.20		.11																	.34		.16	.10	.07	.68	*						
WAIHANA 947	A	1.19	.90	.06		.05	.07																	.11										
WEST LAHA 931	A	2.70	1.30		.03	T	.15	*	*	T		T	.08								*	*		.28	.61	.20	.03	.02						
ISLAND OF MAUI																																		
BERETANIA PUMPING STA	A	2.51	1.74	.06	.27	T	.01																		.18	.25								
CARR 84 807	A	2.14	1.37	.02	.07	.08	*	*		.01						.06	.05			*	*	*	*		.02	.10	.21				.05			
CHURCH COLLEGE LAIE	A	1.42	.88		.04	.01																												
COCONUT ISLAND 845.1	A	2.35	1.90	.01	.07				.01																									
ENA PLANTATION 741	A	1.85	1.45	.11	.03	.08	.01																	.12										
HELEMANA INTAKE 881	A	4.64	2.60	*	.21															.05	.08			.08				1.67						
HONOLULU 725.2	A	3.66	1.95	*		*	*	*		.77	*	*	*												.59	*					.40			
HONOLULU OBSERV 702.2	A	2.29	1.99	.05	.06	.01	.06													.05					.10	.02	*	*						
HONOLULU WSCF 703	R	2.37	1.65		.12	T								T	T									.01	.30	.06			.23					
HONOLULU SUBSTA 704	A	2.42	1.82		.25	.03								T	T									.03		.23	.06							
H S P & EXP STA 707	A	2.50	1.73	.05	.32		T							T	T																			

HAWAII
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DAILY PRECIPITATION

HAWAII
FEBRUARY 1971

Continued

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAPA 89.2	A	7.92	.05	.01											.06	.15	.15		.05		.16	.92	.69	1.52	.42	2.53	.40	.61	.20				
KAPA MAJKA 179.1	A	1.03	.01	.13	.01										.08	.03					.19	.50	.01	.07									
KAPALA MA LILI 176	A	1.15	.01	.13	.02										.07	.03					.02	.07	.02	.61	.02	.08							
KAPALA MISSION 175.1	A	1.14		.18	T										.02	.13	.01	.01					.02	.49	.02	.17	T						
KAPA LOWER 190	A	.91																										.91	*	*			
KONA (KAILUA 88.1)	A	1.40	.02	.33	T												.01							.04									
KONA VI LAGE 93.8	A	1.30	.70														.01				.01	.41	.60										
KUKAIAU 2-2	A	2.00	.12	.17																		.01	.14	.40	.03	.07							
KUKUHAU F 410 199	A	1.24									.10												.39	.71									
KUKUHAU F 410 200	A	1.10																															
KULANI CAMP 70	A	4.16	.07	.06	.12												.12					.14	.22	.91	.98	.24	1.05	.12	.11	.02			
KULANI MAJKA 76	A	1.14							.30	*	*	*	*		.50	*	*	*	*	*		.17	.18	.59	.15	.19	*	.03	3.26	*			
KULANI SCHOOL SITE 78	A	4.23											.05				.12																
KANIMAU 85.2	A	2.52		.86		.03	.11										.12						.10	1.25	*	*	*		.50				
KANIMAU 7	A	1.38		.47						.41																							
MAUNA KEA BRACH 98	A																																
MAUNA KEA SLOPE DRS	A	.25	.08																				T		.13	.04	*	*	*	*	*		
MIDDLE HOUAHOA 88.1	A	.86	.06	.63	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		.13	*	.04	*	*	*	*	*	*	*	*	
MIDDLE PEN 147.1	A	.00																															
MOAULA 18	A	2.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.00	
MOUNTAIN VIEW 91	A	7.05	.15	.03	.13												.10	.24	.10		.12	.41	.66	1.11	2.00	.42	1.24	.71	.16	.18			
MALIEHU 14	A	3.20	.85	.56	.50								.08	.02				.54	.07	T			.01	*	*	*	.20	.37	*	*	*		
MARDOPPO 28	A	5.34	.00				*	*		.18	*	*	*	*	*	*	.16																
MAULI FOREST 38.6	A		.39	.89	1.43								.05	T			.05	.75	.20		.10	.10	.11	.08	.60	.43	.25	*	*	*	*		
MAULI 177	A	.87		.10											*	*	.04																
MAJKA 223	A	4.12	T												.01	.05	T					.01	.74	.35	2.70	.15	.10	T		.04	T	.01	
OPIMAHLE 2 24.1	A	2.89	.38	.02	T								.05	*	.03	*	.01	.03	T		T	.76	*										
ORCHID LAND EST 91.5	A	6.97		.01			1.06	T									.01																
PAAHUAU 217	A	1.71															.01						.30	.25	1.13		.01						
PAAHUAU 221	A	1.88	T	.09	T										T		.01					.01	.40	.22	1.13	.01	.01						
PAMALA 21	A	2.78	1.35	.19	.20									.01			.27	.06									.38	.32	*	*	*	*	
PAMOLA 65	A	7.62	.85	.05	.83		.05	*	*	*	*	*	*	*	.03	.07	.11	.45	.04	.09		.11	.16	.26	.43	1.83	.63	1.27	.21	.06	.09		
PAMAD 37	A	1.97																															
PAPAIOU 144.1	A	7.86	.23	.01	.04										.02	.17	.04	.10	.03				.11	.32	.55	3.50	.81	1.45	.21	.20	.07		
PAPAIOU MAJKA 140.1	A	8.57	.09	T	.02											.17	.27	.09	.04				.11	.61	.61	3.54	.89	1.23	.22	.65	.03		
PEPEKEU MAJKA 144	A	6.71	.10	.01	.02					.01						.15	.12	.07	.02	.05		.07	.08	.10	4.05	.12	1.26	.12	.28	.08			
PIIMOHUA 89	A	9.00													*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
POHAKULUA 137	A	.08	.01												*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUAKO 95.1	A	.12	T	.12	T										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU KTHF 120	A	1.64													*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.64	
PUU LAKE 102.1	A	.03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.03	
PUU EMJA 73	A	.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.70	
PUU HALL 13	A	1.59	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.59	
PUUOKUMAU 57	A	8.44	*	*	*	7.38	*	*	*	*	*	.01	*	*	*	*	*	*	.09	*	*	*	*	*	*	*	*	.96	*	*	*	*	
PUU 13 82	A	3.27	.02	.01	T							.01					.02					.01	.08	.28	1.60	.32	.69	.17	.04	.02			
PUU HAAHAA 94.1	A	.61		.25							*	*	*	.24			.10										.02						
SADDLE ROAD 1 84	A	7.96	*	*	*	.32	*	*	.59	*	*	*	*	*	*	*	*	*	*	.40	*	*	.35	*	*	*	*	*	7.24	*	*	.10	
SOUTH POINT CORRAL 3	A	1.05	*	*	*	*	*	*	*	*	*	*	*	*	*	.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
UNIKUA 18	A	1.45	.13									.13					.08						.15	.01	.40	.05							
UPDILL POINT USCG 159.2	A	.89	.20																														
WALAE SCHO 88.2	A	7.28	.12	.02	.12										.03	.13	.28	.01		T	.24	.58	.59	1.51	.72	2.11	.51	.31					
WALAE KAPALA	A	1.23	.05	T										T	T	T																	

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation								Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
							150TH MERIDIAN													
							02	08	14	20										
HILLO WSD 87	17	4.0	7.1	21	E	18	85	75	63	82	3	6	8	1	2	0	20	40	6.0	
HONOLULU WSFO 703	6	5.9	10.8	34	NE	22	81	77	61	72	5	2	3	0	1	0	11	83	3.9	
KAHULUI WSD 398	6	5.4	9.0	40	NE	22	89	87	58	79	2	1	1	1	0	0	5	86	2.9	
LIHUE WSD 1020.1	9	3.1	10.3	27	NE	22	81	79	68	78	9	2	7	0	0	0	18	59	5.0	

DAILY TEMPERATURES

HAWAII
FEBRUARY 1971

Station		Day of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	67 52	68 52	68 52	66 58	64 49	71 38	67 44	69 53	65 46	67 41	65 43	69 39	69 41	70 44	68 49	67 42	68 42	66 42	69 48	66 54	66 53	65 54	62 50	68 53	67 41	65 47	70 42	70 44				67.2 46.7	
KILAUEA POINT 1133	MAX MIN	83 66	77 69	81 68	76 67	80 67	82 68	81 68	81 69	80 69	80 69	81 68	80 68	78 68	79 71	77 67	77 67	80 67	85 72	77 69	78 73	76 70	76 66	75 68	76 65	76 66	77 66	77 68	76 71	70			78.6 68.4	
LIHUE WSO 1020.1	MAX MIN	78 67	82 69	82 70	81 68	82 67	80 63	78 63	80 63	82 64	83 61	81 65	80 62	80 64	80 73	80 72	80 66	81 62	82 69	81 70	80 71	79 73	78 70	79 69	77 68	79 67	79 65	80 73	80 73				80.1 67.4	
MAKAHUEA POINT 940.1	MAX MIN		81 66	84 66	85 69	85 71	82 65	85 65	85 72	85 69	81 67	85 64	83 69	87 66	80 66	80 64	80 65	80 73	83 65	82 65	83 70	78 68	81 70	74 67	76 68	80 69	82 64	83 61	82 61	83 63			81.7 67.3	
HANA 1026	MAX MIN	81 65	79 67	82 69	82 68	81 64	81 66	80 65	83 61	80 63	83 61	82 63	81 62	83 62	81 61	82 62	80 63	84 64	83 68	82 66	84 63	83 62	83 60	84 61	84 61	83 61	81 61	82 63	83 63				82.0 63.4	
NIU RIOGE 1035	MAX MIN	73 57	76 60	78 59	76 60	79 61	78 60	80 63	80 60	80 60	81 60	80 59	80 59	81 60	82 59	80 56	79 55	81 59	79 60	78 60	77 60	78 61	78 58	77 60	80 60	78 60	79 57	80 60	81 60				78.9 59.4	
WAIKAI LOWER 1054	MAX MIN	77 57	85 69	84 69	80 62	85 70	80 72	87 75	80 68	86 76	81 77	80 55	84 71	86 73	81 70	77 65	78 61	79 56	79 61	78 62	78 65	78 66	76 63	74 64	74 64	78 58	78 57	79 59	79 60				80.0 65.2	
* * *																																		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	80 65	77 61	82 63	82 63	81 63	81 60	82 60	81 61	82 60	82 59	81 58	80 58	82 60	82 64	81 62	81 63	80 63	80 63	81 58		83 64	80 69	79 65	78 65	77 59	80 60	80 62	82 62				80.7 61.8	
HONOLULU WSFC 703	MAX MIN	78 65	83 69	82 71	82 69	82 68	81 66	82 66	83 66	83 66	82 64	81 64	84 65	82 67	81 70	82 69	84 68	82 66	82 68	84 65	81 70	80 68	78 67	79 67	78 68	82 65	81 65	81 69	82 70				81.5 67.2	
HONOLULU SUBSTA 704	MAX MIN	75 65	78 60	79 70	77 60	78 61	77 60	80 63	81 69	79 60	77 60	80 59	80 60	81 60	82 59	80 56	79 55	80 59	79 60	78 60	77 60	77 61	77 60	76 58	76 60	78 60	78 57	79 60	79 60				78.3 68.8	
KAHUKU 912	MAX MIN	78 56	78 62	80 65	82 62	82 62		80 60	80 62	81 60	79 59	81 60				82 64	79 68	80 59	79 62	87 59			81 67	79 66	77 66	77 65	82 65						80.2 62.4	
KANEHE MAUKA 781	MAX MIN	78 61	78 66	83 66	81 67	80 65	81 64	81 65	78 72	84 64	81 63	80 64	80 75	80 70	77 63	78 68	78 69	80 63	80 63	82 63	80 68	79 68	79 68	79 67	80 66	80 66	80 67	78 66	79 65	80 64	78 70			79.3 66.1
LUALUALEI 804	MAX MIN	72 56	76 66	83 67	81 66	79 66		80 63	82 63	81 63	80 62	82 61	82 61	82 62	80 63	80 66	82 63	81 63	82 63	81 62	80 70	80 62	78 63	79 68	77 63	80 61	80 61	82 70	82 64				80.1 64.0	
MAKAPOO POINT 724	MAX MIN	74 63	76 65	76 66	75 68	76 67	79 66	79 63	79 62	79 63	78 63	77 64	77 66	76 62	75 62	75 63	75 66	79 64	79 66	79 66	76 65	76 66	75 66	75 66	75 66	72 66	79 68	78 65	76 66				76.6 65.0	
OPAELA 870	MAX MIN	76 61	71 62	83 65	73 65	77 62		83 61	80 60	80 61	81 57	82 58	83 60	81 60	78 63	82 63	76 63	81 60	82 60	78 61	82 65	77 60	74 65	73 65	71 62	71 60	82 60	82 60	76 65				78.2 61.6	
PRI WAIKAWA 820.2	MAX MIN	78 51	74 62	83 64	81 63	84 62		81 58	83 58	84 59	82 57	82 55	81 57	84 57	83 64	81 63	83 57	81 57	82 57	81 56	83 66	82 66	75 63	75 63	75 63	74 57	80 56	81 61	79 66				80.8 59.2	
WAIKAWA 847	MAX MIN	80 61	78 64	80 65	85 62	83 63		79 62	80 60	84 59	80 58	80 58	81 58	82 60	82 59	82 62	83 61	80 59	80 63	84 58	85 62	80 62	79 68	79 63	77 63	75 57	80 58	80 60	81 60				80.9 60.9	
WAIKIKI 717.2	MAX MIN	80 65	78 65	85 66	85 68	84 65		83 62	82 64	83 63	82 61	84 60	82 64	85 64	85 70	83 68	87 61	83 62	85 62	84 68	85 70	83 61	82 62	83 67	82 67	80 64	84 65	82 70					83.2 65.7	
WAINANALO EXP FARM	MAX MIN	78 65	76 66	82 68	81 65	81 64		80 63	79 66	80 62	81 62	80 62	79 64	80 69	80 70	80 64	79 69	81 61	80 62	80 61	83 63	81 66	80 68	79 69	78 68	76 67	80 64	81 66	81 66				80.0 65.1	
* * *																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	81 65	69 64	79 64	79 66	80 64		79 68	79 67	79 62	80 62	80 61	78 60	79 60		77 68	78 62	79 62	80 65	79 64	83 66	78 69	78 68	74 68	76 67	75 60	79 61	79 61	79 61	80 67			78.4 64.3	
* * *																																		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	79 60	69 60	78 61	78 61	76 59		74 59	77 58	76 57	78 58	77 56	76 58	73 60	75 60	73 63	77 61	75 60	76 62	77 61	77 65	74 62	77 61	79 63	81 64	79 58	78 57	75 59	77 59				76.5 60.1	
* * *																																		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	59 46	54 45	60 41	59 41	59 41		63 43	63 51	65 40	60 34	56 36	58 37	59 40	61 39	59 42	64 38	59 35	58 38	64 38	65 42	64 43	60 38	51 37	53 42	59 35	57 35	55 36	58 37				59.4 39.6	
HALEAKALA SUMMIT 338.4	MAX MIN	46 36	40 34	47 35	49 38	50 39		49 37	59 40	56 40	53 40	52 40				50 39	55 42	57 38	58 44	60 49			45 28	38 30	42 33	48 35	58 33						50.2 37.7	
HANA AIRPORT 355	MAX MIN	75 69	80 63	80 68	81 64	81 64		80 63	80 66	80 64	80 66	81 62	81 66	81 68	79 65	79 66	80 66	80 66	82 61	80 61	81 69	80 68	80 68	75 64	81 66	81 64	80 69	80 65					79.9 65.3	
KAANAPALI AIRPORT	MAX MIN	78 51	75 61	80 66	80 66	79 65		79 63	80 60	80 60	80 60	81 61	80 60	80 63	80 68	82 65	81 65	80 63	82 63	79 66	80 63	78 66	80 60	78 65	75 65	80 60	80 62	81 63					79.4 62.8	
KAHULUI WSO 398	MAX MIN	76 65	82 63	80 61	82 61	81 62		82 59	85 62	84 59	83 55	83 55	84 58	85 59	85 66	83 65	86 64	84 59	83 60	86 62	82 68	80 80	81 65	60 65	85 60	85 58	86 58	86 56					83.0 61.6	
KAILUA 446	MAX MIN	76 67	68 64	77 63	77 63	78 61		77 62	78 64	79 65	76 63	79 64	78 64	77 66	77 65	77 65	75 64	76 64	77 63	78 62	78 62	78 66	75 60	75 60	73 59	70 66	74 63	75 65	75 65				76.2 63.6	
KEAWAKAPU BEACH 260.2	MAX MIN	81 66	79 63	83 62	81 63	82 62		84 60	84 62	84 60	83 60	83 58	82 60	84 60																				

DAILY TEMPERATURES

HAWAII
FEBRUARY 1971

Continued

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
LAMAIYA 361	MAX MIN	83 69	76 64	83 65	83 65	83 63	83 63	83 64	83 64	84 62	83 62	84 63	83 65	84 65	84 64	84 65	83 65	82 64	83 62	84 65	82 63	84 65	84 65	85 64	83 62	83 63	82 64	82 63			83.0 64.0		
HAILUKE 386	MAX MIN	80 60	80 63	78 63	79 63	80 63		78 63	81 66	83 63	79 63	80 62		81 63	81 63	82 63	82 63	82 62	80 68		78 68	77 64	76 68	77 66	81 66	80 63					79.8 63.8		
ISLAND OF HAWAII																																	
HAINA 214	MAX MIN	81 65	80 65	80 63	80 64	81 62	80 62	80 63	76 61	80 61	78 62	80 60	78 60	79 62	79 62	77 65	78 64	80 63	78 61	81 63	79 64	78 64	78 63	77 61	76 65	77 60	77 62	78 62	78 65			78.7 62.5	
HAWAII VOLCNS NP HO 54	MAX MIN	65 55	64 55	65 55	71 50	69 49	69 50	71 50	69 49	69 48	68 47	67 46	69 45	69 53	69 52	68 48	65 53	68 47	67 48	63 52	65 51	63 49	65 48	60 52	60 49	60 51	67 51	65 45			66.4 50.0		
HILO WSO 87	MAX MIN	85 69	82 66	83 64	83 63	83 62	83 60	84 62	84 63	84 61	84 62	83 63	86 62	87 66	85 64	84 65	81 64	80 60	82 58	79 60	80 61	79 61	76 61	76 59	72 63	76 63	79 63	79 62	80 60			81.4 62.3	
KAINALIU 73.2	MAX MIN	74 61	72 61	80 60	76 59	76 58	76 58	76 60	75 62	76 62	77 58	75 58	77 59	77 59	77 61	76 61	76 59	78 60	77 62	75 58	75 62	75 59	72 57	75 58	77 60	76 58	77 60	77 59			76.0 59.8		
KAMUELA 192.2	MAX MIN	76 57	69 55	72 47	75 50	76 49	76 48	75 51	75 52	74 62	75 60	74 59	75 60	73 56	72 55	70 55	68 53	75 53	76 45	73 44	70 47	68 55	68 57	69 55	70 54	70 55	73 55	70 55			72.6 51.2		
KEAAU 92	MAX MIN	80 62	80 66	77 64	82 63	82 61	81 61	80 60	80 63	80 62	80 62	80 61	80 61	81 63	80 64	80 64	79 62	82 63	80 64	78 64	78 62	77 60	77 61	73 60	72 63	78 62	78 62			79.1 62.4			
KEALAKEKUA 26.2	MAX MIN	75 62	74 61	77 61	77 62	77 60	77 59	77 61	76 62	76 62	77 60	77 59	76 60	76 59	77 61	78 61	75 60	77 60	76 60	76 60	75 61	74 63	77 53	77 59	77 60	76 60	78 61	77 61			76.4 60.5		
KOHALA MISSION 175.1	MAX MIN	80 67	76 65	79 64	80 64	80 61	77 61	78 62	77 63	78 61	77 61	78 59	77 59	77 63	77 66	77 66	76 63	79 63	78 62	79 61	78 62	71 65	71 66	75 61	74 65	77 61	77 61	77 66			77.0 63.0		
KONA (KAILUA) 68.3	MAX MIN	83 64	80 66	80 66	84 65	82 68		83 66	83 69	82 67	82 67	84 67		83 67	82 68	84 68	82 65	82 68	82 68					82 65	83 66	81 67	82 67	83 66			82.4 66.6		
KULANI CAMP 79	MAX MIN	64 51	63 50	63 51	66 43	66 42	66 42	64 40	65 37	66 39	65 39	65 42	65 44	63 44	65 44	64 42	59 47	60 44	64 47	58 36	60 44	60 47	45 45	56 43	57 46	62 46	61 46	57 45			62.2 43.6		
MAUNA LOA SLOPE 785	MAX MIN	42 33	43 33	48 32	46 28	47 30	48 31	45 33	54 31	53 33	51 31	52 33	55 34	56 38	54 36	56 35	54 34	52 36	56 35	55 30	54 34	52 31	45 26	47 29	47 29	43 26	45 27	47 27	49 30			49.9 31.6	
MOUNTAIN VIEW 91	MAX MIN	76 56	75 63	72 61	77 59	77 57	79 55	79 55	76 55	76 56	77 55	77 55	77 55	77 55	73 59	75 60	78 58	73 58	73 58	73 58	73 58	71 57	72 57	67 57	67 57	75 57	75 57			74.9 57.1			
NAALEHU 14	MAX MIN	78 63	77 67	74 66	76 65	77 64	77 64	77 62	77 62	77 65	76 62	77 64	76 64	76 64	78 64	78 64	77 66	77 65	77 65	77 65	77 62	77 62	77 64	75 65	76 63	75 64	75 64			76.5 64.1			
ODKALA 223	MAX MIN	78 60	77 64	77 64	80 67	78 62	79 61	80 62	79 61	78 62	77 61	77 61	77 60	79 61	79 66	78 64	78 61	79 62	78 61	80 62	80 62	76 62	76 60	76 61	77 61	77 61	77 62	77 63			77.9 62.5		
OPIHIWALE 2 24.1	MAX MIN	76 61	75 59	75 59	76 58	76 57	74 57	73 58	77 55	75 55	75 55	75 55	76 56	77 57	75 60	76 56	75 56	76 56	77 56	75 60	76 56	76 55	76 55	76 55	77 55	75 56	77 56			75.7 56.8			
PAHALA 21	MAX MIN	78 65	77 65	75 65	79 64	77 60		79 60	77 61	77 61	76 58	77 58	76 60		78 60	78 61	74 62	78 62							80 61	80 63	77 61	74 62			77.6 61.8		
PUAKU 95.1	MAX MIN	82 64	77 63	82 63	81 65	82 63	82 61	83 63	81 65	82 63	82 62	81 60	81 60	82 59	82 65	83 69	84 65	81 64	83 63	81 63	84 63	84 67	83 64	84 64	84 63	81 64	82 63	84 61	83 61			82.2 62.8	
UPOLU POINT USCG 159.2	MAX MIN	83 70	79 69	86 69	82 68	80 68	80 69	80 66	80 69	83 69	79 66	80 66	81 66	79 66	79 68	79 68	79 68	84 68	83 66	83 67	81 65	79 67	79 65	81 67	77 66	75 66	79 65	80 68			80.4 67.4		
WAIHEA KOHALA	MAX MIN	69 50	70 52	73 49	74 51	74 44	72 44	72 49	72 47	73 47	72 46	72 44	72 42	72 47	72 55	70 54	72 47	73 49	73 46	71 45	71 47	71 42	69 52	69 54	70 48	69 50	72 46	72 48	70 47			71.3	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIMUE WSO 1020.1		EVAP WIND MAX MIN	- 82 75 60	.19 74 78 61	.18 80 83 68	.13 100 82 68	.19 42 84 63	.23 93 83 64	.13 53 81 58	.25 60 83 64	.17 63 82 62	.19 80 82 63	.16 64 82 56	.19 66 83 57	.16 57 83 57	.24 127 83 58	.28 151 83 62	.27 123 79 62	.18 63 82 62	.22 79 87 57	.15 87 78 63	.22 142 84 62	.29 238 80 62	.33 277 77 61	.33 285 80 60	.26 283 75 60	.25 153 72 60	.10 65 72 58	.30 97 84 57	.30 205 85 60			6.118 3289 80.8 60.7
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2		EVAP WIND MAX MIN	.24 34 80 64	.09 18 75 63	.13 13 89 63	.15 18 87 66	.18 28 87 63	.19 21 88 64	.15 25 88 63	.15 19 88 63	.15 11 89 62	.24 19 86 62	.15 22 87 61	.16 19 87 63	.14 15 83 62	.17 20 85 62	.18 23 86 63	.15 14 84 62	.18 20 88 62	.20 24 90 62	.26 22 88 63	.22 56 83 63	.25 68 85 61	.22 52 82 61	.25 46 80 62	.06 20 86 60	.15 13 86 60	.22 34 90 62	.27 34 86 63			5.05 701 85.7 62.6	

See Reference Notes Following Station Index

HAWAII
FEBRUARY 1971

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HAWAII
FEBRUARY 1971

1 DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any National Weather Service Office near you. Additional precipitation data are contained in "MONTHLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS. Data elsewhere indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, wind speed in miles per hour, and wind direction in degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME. Data in the "Monthly Extremes", "Daily Precipitation" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

Evaporation is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the instrument pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Basic state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
 - No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
 - + And also on an earlier date or date.
 - + Highest observed one minute wind speed. This station is not equipped with an instrument to measure fastest mile data.
 - + Amount included in following measurement, time distribution unknown.
 - A The letter "A" shows following station made in "Climatological Data" table, "Daily Precipitation" table, and "Station Index". Indicates amount carried in the "Total" column for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
 - B Adjusted to a full month.
 - J "Supplemental Data" table.
 - M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
 - R Amounts from recording gage.
 - Trace, an amount too small to measure.
 - V Includes total for previous month.
- THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:
- AR Observation made after rain.
 - C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletins. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
 - MO Gage read once monthly, usually on the last day.
 - OC Gage readings at periods varying from a few weeks to several months.
 - S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
 - SS Observation time is near sunset.
 - VAR Observation time is variable.
 - W1 Gage read weekly or irregularly only.
 - WV Gage read weekly and last day of month.

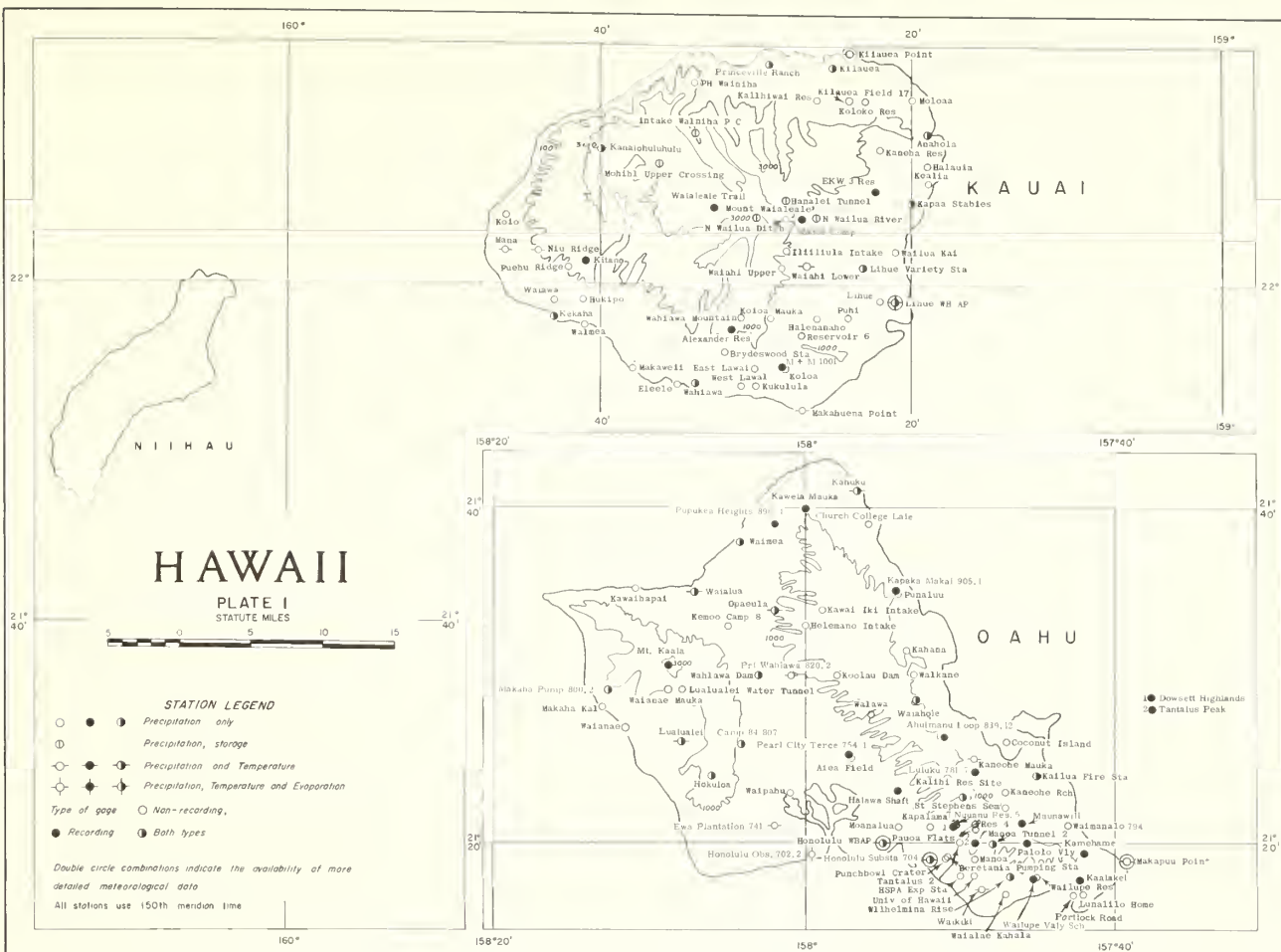
Stations appearing in the table with no data were either missing or received too late to be included in this issue.

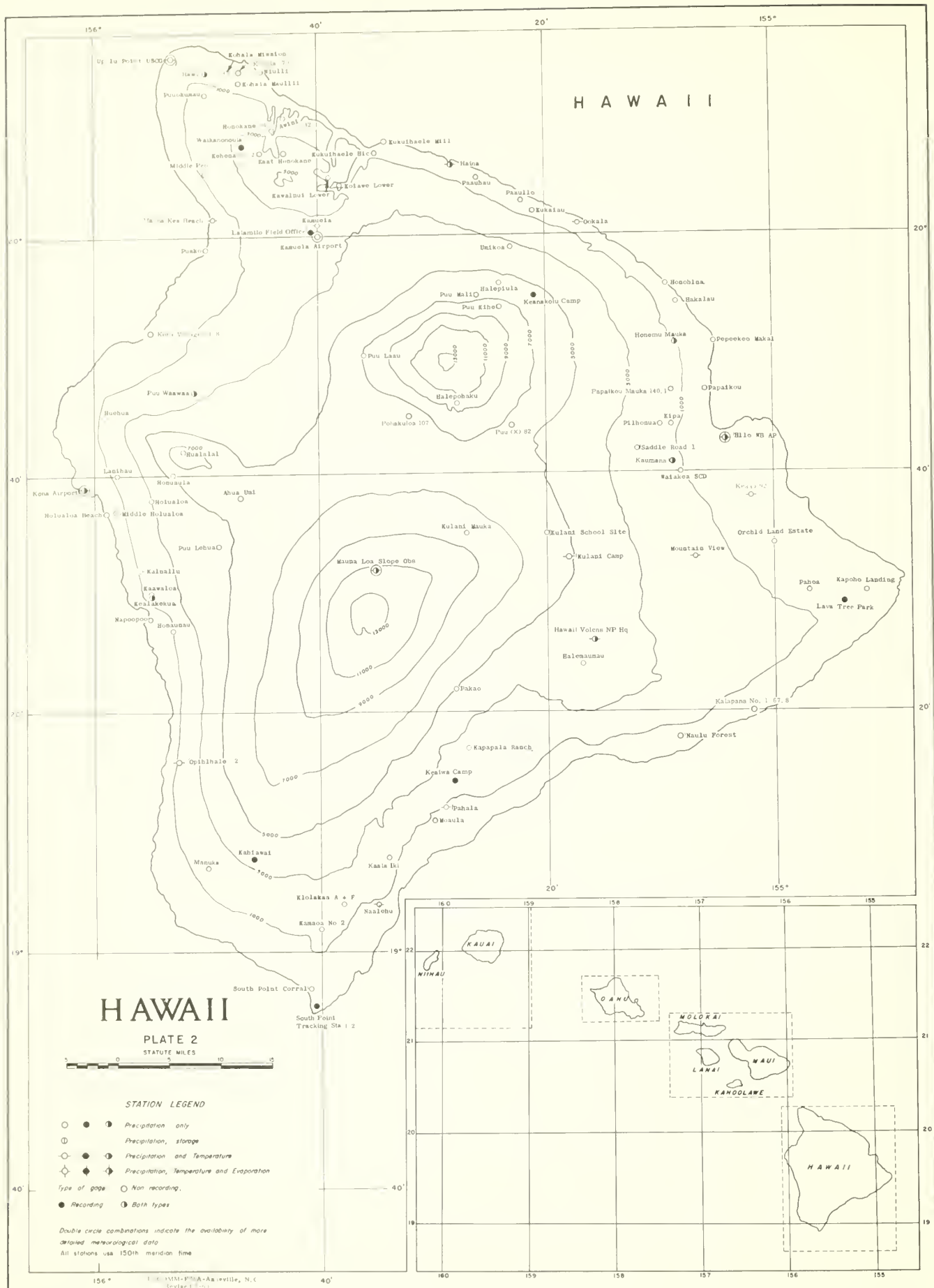
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-NOAA-ASHEVILLE- 5/28/71-890





See Reference Notes Following Station Index

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
MARCH

1971

Station		Temperature										Precipitation																
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
											Max.		Min.						Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											50° or Above	32° or Below	32° or Below	0° or Below														
K E A U 92		77.6	62.6	70.1	- .2	84	23+	59	4		0	0	0	0	12.86	- 2.72	2.80	26	.0	0		18	9	3				
K E A A K E U A 26.1		76.5	60.9	68.7		80	23+	59	11+		0	0	0	0	2.02		1.24	26	.0	0		4	1	1				
K O N A (KAILUA) 68.3	A	82.4	66.7	74.6		87	24	65	19+		0	0	0	0	1.70				.0	0								
K U K I H A E L E H I C 199															10.14	.10	5.40	26	.0	0		12	3	2				
K U L O N I C A M P 79		60.3	45.7	53.0		72	26	36	18		0	0	0	0	14.45		3.40	27	.0	0		18	7	5				
P A H A L A 21	A	76.7	60.5	68.6	- .3	82	24+	57	18+		0	0	0	0	3.91	- 1.67			.0	0				0				
P O H O K U L O A 107	A														.71				.0	0				0				
P U A K O 95.1	A	83.1	64.2	73.7		86	26+	60	7		0	0	0	0	.67		.54	28	.0	0		1	1	0				
P U U W A A W A A 94.1	A														.97	- 2.24	.33	23	.0	0				0				
U M I K O A 118															10.44	- 2.29			.0	0								
W A I A K E A S C O 88.2															19.47		5.67	26	.0	0								
W A I M E A K U H A L A		70.1	50.4	60.3		76	25+	42	19		0	0	0	0	1.15		.66	26	.0	0		2	1	0				
I S L A N O				66.8											6.87				.0									

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 88° ON THE 26+ AT MAKAHUENA POINT 940.1

LOWEST TEMPERATURE: 29° ON THE 5+ AT 2 STATIONS

GREATEST TOTAL PRECIPITATION: 49.69 AT MOUNT WAIALEALE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT MIDDLE PEN 147.1, HAWAII

GREATEST ONE-DAY PRECIPITATION: 9.91 ON THE 26TH AT KUKAIAU 222, HAWAII

HAWAII
MARCH 1971

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DAILY PRECIPITATION

HAWAII
MARCH 1971

Continued

Station		Total	Day of Month																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KALAPANA 534	A	3.21							.03	.06	T		.02			.05	.03	.04				1.84	2.23	.02	.22	.01			.06		.66		
KAPULE 547	A	3.50															.08	.02								.20	.07	.02			.50		
KAHUALOIA 511	A	4.85							.01								.10	.01		.04			2.05	.03	2.30						.31		
KALANAPANA 54	A	2.62					.04				.03						.13	T				.64	.92	T		.23	.02				.61		
KAHUALOIA RANCH 540.1	A	-																															
KALANAPANA 540	A	9.18							1.62																	4.86					2.70		
ISLAND OF LANAI																																	
KANEPJ 690	A	2.71				.36				.09			.03							.02										1.96		.34	
KALANAPANA HARBO 658	A	.42								.11	.09	.08					.07	T						1.83	.01	.51			.21	T	1.36		
LANAI CITY 572	A	4.30	.01	.02																												.27	
LANAI HALE 684	A	5.30																								1.99							
MANANA 594	A	2.39																															
MAAUA 675	A	2.30										.03								.02							1.57					.68	
MAIAEAKUA 585	A	3.12														.12																3.00	
ISLAND OF MAUI																																	
EUWAHI 252	A	4.13				.10																.45		3.30		.36	1.10	.28		.03	.16	.33	.07
HALEAKALA 8 E S 434	A	6.31		.14	.02		1.00	.29	.31	.15	.46	.05	.02	.31	.13	.07	.23						.93	.06	.17	.48	.09		.03	.16	.05	.21	
HALEAKALA RANCH 432	A	2.51								.26	.10													1.12	.12								
HALEAKALA RS 338	A	5.30	.01	.04	T		.27	.30	.02	.10	.05	.02				.01							T	1.04	.01	.25	2.59	.12	.03	.01	.44	.09	
HALEAKALA SUMMIT 338.4	A	5.31	.33	.17	T		.11			.10	.04													2.02		.05	2.03			.02	.09	.35	
HAIIWAILE 423	A	4.25		.02			.52			.41	.53		.03	.18		.06	.09							1.34	.02	.14	.68	.05		.01	.02	.15	
HAKAJAPKO 485	A	5.11		.17			.46	.28	.13	.19	.13	.02		T	.03	.05	.11	.03					.02	.85	.01	.37	1.36	.71	.02	.02	.29	.36	
HANA 354	A	8.16	.03	.08			.05	.33	.23		.47	.20		.01	.01		.08	.16	.02				1.58		1.43	1.56	.18		.01	.61	.21		
HANA AIRPORT 355	A	7.98	.09	T			.09	.51	.20		.06	.20	.03	.03	T	.04	.74	.07	.22		.01		1.02	.28	T	1.95	1.23	.17	T	.20	.67	.17	
HIPAHULI 281	A	9.94					.10	.39	.35	.12	.06	.82	.12	.03	T	.04	.52	.12	.10					.17	.38	2.31	.02			.50	.25		
HOLUA CABIN 259.5	A	5.43				.20						.52										.03					4.33				.35		
HONOKOHU 480	A	15.00																														15.00	
HONOKOHU 493	A	4.06					.30			.50	.20						.04	.01	.02					1.10	.04	.87	.45			.23	.22	.07	
HONOHU GULCH 341	A	10.60																														10.60	
KANAPALI AIRPORT	A	1.92				.02	T		.05	.08							.01						.08	1.05	.31	.01						.31	
KANOA INTAKE 374	A	3.57																														3.57	
KAMUJII #50 398	R	2.92				T	.01	T	.01	T	T	.01				T	.01						.01	1.73	.08	.70	.02		.05	.07	.22		
KAILIHI 436	A	15.16																														15.16	
KAILUA 446	A	14.67	.43	.37	.11	.01	1.69	.10	.27	.17	.10	.16	.02	.01	.02	.30	.51	.24	.05						.89	.20	.02	1.15	4.50	1.27	.28		.92
KAILUA INTAKE 375	A	2.55					.41							.37								.13		.89	.20	.02	1.15	4.50	1.27	.28		.92	
KEAHUA 410	A	2.13				.08		T	T	.18			.01	.05	T	T	.02				.03	.08	1.00	T	T	.25	.25	T			.18		
KEANAE 346	A	25.50																														25.50	
KEANAE BEACH 200.2	A	3.01																														.31	
KIHEI 311	A	1.44																														.01	
KIPAHULU 258	A	9.67		.11	.18	.79	.41	.32	.58	.16						.97							2.84		.33	1.30	.55			.93	.20		
KULA HEIGHTS 323.2	A	2.72																														.23	
KULA SANATORIUM 267	A	2.11				T					T																					.10	
LAHAINA 301	A	3.72														.15																.50	
LAUNIPOKO INTAKE 376	A	7.50																														7.50	
LAUNIPOKO VILLAGE 372	A	2.95																															.59
LUPU UPPER 442	A	21.00																														21.00	
MAHIMAHINA 466	A	4.15					.44	.28		.30	.60						.04						.35	1.03	.31	.38					.32	.10	
MAHIMAHINA #100-497	A	4.15					.14			.19	.04	.02	T				.01	T														.05	
MOLINA 332	A	3.02	.02	.01	T																												.18
MOLWA 296	A	2.46																															
OLUWALU GULCH 377	A	8.00																														8.00	
PAKAA 350	A	26.13	.54	1.25	.46	.18	2.43	1.30	.49	.57	.34	.31	.04			.72	.48	.41	.19							2.58	7.40	2.65	.34	.06	1.29	1.36	
PAKAA 350	A	2.80					.25	.07	.04	.05	.07					T	.01	.05								.50	.54	.02					2.30
PANILEHU 259.2	A	13.46																															

DAILY PRECIPITATION

Continued

HAWAII
MARCH 1971

Station		Total	Day of Month																															MARCH	1971
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KIPA 99.2	A	25.59	.41	1.11	.48	.30	2.50	1.35	.47	.16	.32	.21	.00	.82	.81	.14	.21	.02																	
KOHALA 179.1	A	6.44					.42	*		.29	.30		.02	.03	*	*	.68	.09	.01																
KOHALA MAULILI 176	A	10.97					.35	*		.94	.34		.01	.03	.09	*	*	.87	.10	.02															
KOHALA MISSION 175.1	A	8.49					.24	.46	.20	.05	.38	T	.03	.05	.48	.31	.01	.15	.01																
KOIAWE LOWER 196	A	9.49	*	*	*		.20	*		.05	*		*	.20	*	*	*	*	*		.59	*	*	*	*	*	*	*	*	*	*	*	*		
KONA (KAILUA) 68.3	A	1.70		.05	.38															.05															
KONA VILLAGE 93.8	A	1.89					.51	*	1.18	.18	.01		.47	.39	.23	.22	.13	.01																	
KUKAIUA 222	A	17.26		.05			.15	.15	.26	.60	.09		.28	.14	.37	.22	.13	.01																	
KUKUIHALE HIC 199	A	10.14					.19	*	.76	.01			.19	*	*	*	.40																		
KUKUIHALE HILL 206	A	7.46																																	
KULANI CAMP 79	A	14.45	.45	1.52	.18	.01	1.35	1.07	.30	.50	.28		.80	.03	.08	.46	.11																		
KULANI MAUKA 76	A	4.25	.10	.02		.30	.50																												
KULANI SCHOOL SITE 78	A	10.44											*	*		.72	*	*	*	*		.55	*	*	*	*									
LANIHUA 68.2	A	3.10	.28	.36			3.20						*	*		.05	*	*	*	*															
LANUKA 2	A	1.00																																	
MAUNA KEA BEACH 98	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
MAUNA LOA SLOPE 98.5	A	.77	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
MIDDLE MOULDA 98.1	A	.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
MIDDLE PEN 147.1	A	.00																																	
MOAULA 18	A	2.00	*	*	*																														
MOUNTAIN VIEW 91	A	19.86	.87	.89	.29	.08	1.66	2.27	.10	.22	.43	.03	.20	.21	.46	.54	.21	.26	.02																
NAALEHU 14	A	4.13	.41	.89	T		T	.45			.06	*				.25	*																		
NAPOOPOO 28	A	2.37	.76	*	*		*	*			.06	*				.05																			
NAULU FOREST 38.6	A	7.55	*	*	*		.32	*		.38	.45		.02	.10		.88		.12	.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
NIULILI 179	A	12.46		.40	.02		1.28	1.37	.20	.26	.05	T	.38	.41	.16	.01	.10	.01																	
OOKALA 223	A	.94		.06			.04	T		.07						.05	T		.02	T															
ORCHIO LAGO EST 91.5	A	5.44	*	*	*		4.24	*		*	*																								
PAUHAU 217	A	7.71					.36	.25	.07	.15	.01		.18	.22	.05	.04	.02			.52	T	*	*	*	*	*	*	*	*	*	*	*	*		
PAUULO 221	A	14.73		T		.33	*	1.00	.11	T		.31	.26		.08	T		.04	.02																
PAHALA 71	A	3.91	.37	.77	.01		.02	*		.51	.03					.20																			
PAHOLA 65	A	15.21	.44	.82	.57	.10	2.12	1.82	.09	.18	.43	.06	.09	.38	.31	.36	.14	.14	.17																
PAKAO 37	A	5.60	*	*	*																														
PAPAIAU 144.1	A	15.24	.50	1.16	.48	.35	2.02	1.02	.18	.18	.37	T	.04	.32	.39	.40	.21	.15	.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
PAPAIAU MAUKA 140.1	A	24.91	.39	1.35	.38	.26	2.70	1.02	.22	.31	.31	T	.09	.62	.70	.62	.22	.22	.05																
PEPEEKED NAKAI 144	A	10.32	.51	.72	.41	.43	1.82	.21	.12	.23	.17	.02	.03	.31	.12	.31	.05	.10	.01																
PIIHONUA 89	A	33.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
PONAHULA 107	A	.71	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
PUAKO 95.1	A	.67		.02	.03		.01																												
PUU KHE 120	A	5.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
PUU LAU 102.1	A	1.75	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
PUU LEHUA 73	A	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
PUU MALI 113	A	2.99	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
PUUOHU 167	A	2.21											.99																						
PUU DO 82	A	12.99	.24	1.48	.11	.08	1.38	.92	.08	.12	.20	T	.06	.02	.06	.34	.04	.01																	
PUU WAHAA 94.1	A	.97					.18																												
SAOOLE ROAD 1 84	A	13.30	*	*	*	*	7.15	*	*	*	*	*	*	2.65	*	*	*	*	*	*	1.50	*	*	*	*	*	*	*	*	*	*	*	*		
SOUTH POINT CORRAL 3	A	2.66	*	*	*	*			1.40	*	*	*	*	*	*	.04	*	*	*	*	*	*	.28	*	*	*	*	*	*	*	*	*	*		
UMUKA 118	A	10.44					.17	*		.70			.07	.01	.10	.18	.02	.07																	
UPOLU POINT USCG 159.2	A	3.73					.22	.15	.03	.08	.12		.07	.10	.18	.02	.07																		
WAIKAEA SCO 88.2	A	19.47	.27	.74	.34	.28	2.10	1.52	.10	.28	.35	.01	.20	.34	.14	.48	.38	.52																	
WAIKAEA KOHALA	A	1.15					.08	.02	.01	T		.01	.20	.34	.14	.48	.38	.52																	

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover	sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
							150TH MERIDIAN													
							02	08	14	20										
HILO WSD 87	16	1.8	6.4	27	SE	23	90	85	68	87	0	7	8	4	5	0	24	27	7.9	
HONOLULU WSFO 703	6	9.9	13.4	29	NE	12	74	73	60	72	12	7	2	2	2	0	25	65	7.3	
KAHULUI WSD 398	7	8.5	12.7	31	N	25	84	79	57	77	6	9	1	1	1	0	18	62	6.0	
LIHUE WSD 1020.1	7	8.4	12.2	28	NE	25	78	76	69	75	7	10	8	3	1	1	30	40	8.1	

DAILY TEMPERATURES

HAWAII
MARCH 1971

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
KANALOAHULUHULU 1075	MAX MIN	67 49	64 50	66 51	64 51	64 50	64 51	60 51	65 49	65 50	67 50	59 48	62 51	69 48	60 41	69 53	68 43	67 43	66 52	63 50	59 54	63 47	62 56	63 58	69 58	76 55	65 53	68 55	74 54	65 54	64 55	68 53	65.3 51.1
KILAUEA POINT 1133	MAX MIN	78 68	76 70	76 69	76 72	76 68	76 71	76 67	76 72	76 69	76 66	75 70	76 68	76 65	77 71	76 71	79 68	80 65	73 69	76 66	71 62	76 66	76 70	81 67	81 67	73 67	74 71	75 68	78 70	78 68	77 67	77 67	76.4 68.4
LIMUE WSO 1020.	MAX MIN	80 71	77 67	79 66	80 72	78 71	79 71	79 67	79 69	77 69	79 72	78 69	79 70	80 72	79 68	80 70	79 72	78 68	77 68	78 67	76 63	76 63	76 68	79 69	73 68	76 69	79 73	79 70	77 71	77 69	80 71	78.4 69.4	
MAKAHUEA POINT 940.1	MAX MIN		82 71	84 67	79 66	82 72	77 71	76 67	81 69	80 65	81 66	81 66	77 68	80 72	84 68	84 60	84 64	84 67	86 64	74 60	72 60	75 68	77 60	88 65	88 65	78 59	86 68	80 67	80 66	73 68	80.5 65.5		
MANA 1026	MAX MIN	83 64	83 64	81 63	78 60	80 59	80 58	83 62	84 62	82 61	81 61	82 63	83 64	84 62	85 62	85 59	84 61	85 63	84 62	83 61	78 66	72 66	77 66	76 69	82 73	83 66	73 65	79 65	80 65	81 63	82 66	79 63	81.7 63.3
NIU RIDGE 1035	MAX MIN	79 58	78 62	76 59	79 60	78 60	79 60	79 60	80 59	79 58	78 60	79 59	78 58	80 60	79 61	79 59	80 59	80 59	79 59	72 57	72 58	75 61	72 60	73 60	70 60	69 60	70 60	72 59	79 61	77 58	77 59	76.3 59.4	
WAIAMI LOWER 1054	MAX MIN	80 63	82 66	79 64	77 63	76 63	81 67	80 66	77 64	76 62	75 61	77 63	76 63	80 61	75 59	76 62	79 60	80 59	76 60	74 59	72 64	75 58	72 64	76 66	75 68	78 64	71 63	70 64	76 63	74 64	76 64	76.3 62.9	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	81 63	80 64	80 64	81 63	79 64	79 62	79 66	79 64	79 64	79 62	81 64	78 64	80 60	80 63	82 63	80 62	81 59	79 61	78 59	80 68	79 69	76 67	79 70	80 68	80 65	77 66	78 66	80 65	80 66	80 66	78 64	79.4 64.2
HONOLULU WSO 703	MAX MIN	81 68	81 69	81 69	79 70	79 67	79 69	79 68	79 69	80 67	81 69	78 68	80 65	80 68	80 69	81 66	82 69	80 65	78 65	80 64	79 66	77 66	81 69	80 73	82 71	78 65	79 69	80 68	80 70	81 70	79 67	82 67	79.9 67.9
HONOLULU SUBSTA 704	MAX MIN	79 70	78 70	79 69	76 68	76 68	76 69	75 67	77 69	77 67	78 69	75 67	76 69	78 70	78 69	78 69	79 67	78 65	75 67	76 67	75 67	79 70	78 74	78 69	75 69	76 69	78 70	78 70	78 70	79 66	79 66	77.2 68.5	
KAMUKU 912	MAX MIN	80 69	79 70	80 69	79 67	78 66		79 66	77 66	77 66	79 66	79 65	79 65	80 68	79 69	79 62	79 62	74 60			82 62	77 68	81 67	85 65	74 66			78 68	78 66	76 66	78.7 66.3		
KANEHE MAUKA 761	MAX MIN	80 71	77 70	78 68	75 67	79 67	81 65	78 61	77 66	77 66	76 65	78 65	77 67	77 66	78 67	78 66	75 65	79 63	79 63	75 63	75 69	75 64	76 64	82 68	81 68	85 66	74 68	75 67	77 70	79 68	78 65	75 65	77.7 66.6
LUALUALEI 804	MAX MIN	82 62	81 65	81 69	81 70	78 67	79 69	80 67	79 67	80 67	80 66	82 69	80 69	79 68	81 66	83 66	81 69	81 65	81 65	74 61	78 66	74 65	80 65	81 72	80 70	81 68	78 67	81 70	82 70	80 69	77 67	79.7 67.1	
MAKAPOO POINT 724	MAX MIN	76 67	74 66	79 66	73 66	74 65	74 65	73 66	74 66	74 66	73 66	74 66	73 66	71 65	76 66	74 66	75 65	75 66	76 66	77 69	78 63	75 68	79 73	78 68	78 68	79 64	71 65	76 65	74 64	74 65	73 67	75.0 65.9	
OPAEULA 870	MAX MIN	76 67	77 64	77 63	77 63	74 64	74 63	74 63	74 62	74 62	76 62	74 62	76 62	72 61	78 64	75 63	79 61	82 59	82 59	75 62	75 60	75 60	75 64	75 64	76 66	82 62	72 63	71 63	77 64	76 63	75 63	75.2 62.6	
PRI WAIHANA 820.2	MAX MIN	82 56	82 62	78 64	79 62	77 62	78 62	77 63	78 62	76 62	78 59	74 60	76 62	77 60	78 63	79 60	80 62	79 62	78 57	74 57	70 60	78 60	78 66	79 68	82 65	74 65	75 66	79 64	79 63	79 65	78 63	77.7 61.9	
WAILUA 847	MAX MIN	82 62	81 63	80 68	81 60	80 61	79 62	79 64	78 63	79 63	79 58	82 64	79 63	78 64	81 64	82 61	82 57	81 61	77 58	82 59	75 63	78 65	82 68	80 70	84 66	78 66	84 65	78 66	78 64	80 60	79 62	79.8 62.4	
WAIKIKI 717.2	MAX MIN	84 65	82 69	84 70	84 68	83 68	83 69	83 68	82 69	83 68	82 69	85 69	83 68	82 69	84 69	83 68	84 66	84 63	82 62	84 70	82 67	82 72	80 68	82 72	82 72	87 69	78 71	81 71	83 71	83 68	81 67	80 67	82.6 68.5
WAIMANALO EXP FARM	MAX MIN	80 65	81 67	80 69	79 69	79 68	80 68	79 67	79 67	79 67	79 68	80 68	78 66	80 68	80 69	80 69	80 65	82 62	79 64	80 70	79 65	78 68	78 69	80 71	76 66	78 68	79 67	76 68	78 69	77 69	78 66	78.8 67.6	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	79 62	78 65	80 67	81 68	77 68	77 69	78 69	77 67	79 67	78 62	77 65	75 68	76 66	79 69	79 68	78 67	78 62	78 63	77 63	76 69	78 68	74 67	81 67	81 67	80 68	75 66	76 66	80 71	79 68	77 68	75 66	77.8 66.6
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN	77 60	75 57	78 61	79 63	78 62				75 63	74 59	76 58	73 60	73 60	72 62	73 62	72 59	75 62	74 57	73 58	71 62	76 64	69 64	79 67	75 66	78 65	70 62	73 63	74 63	73 63	72 64	72 63	74.3 61.8
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	59 45	58 44	58 40	58 43	58 42	57 40	58 45	65 38	60 39	62 38	62 39	65 42	58 44	60 39	62 43	65 38	63 38	56 38	60 37	63 37	58 44	58 45	64 45	73 52	75 45	55 45	59 41	61 39	62 44	56 44	56 45	60.8 42.1
HALEAKALA SUMMIT 338.4	MAX MIN	47 32	42 32	43 29	40 30			50 39	55 38	56 38	55 40	58 36	55 36	48 45	58 40	52 39	55 34	52 40			56 34	56 40	53 38	57 37	43 37	57 37			52 35	46 35	40 34		
HANA AIRPORT 355	MAX MIN	78 66	80 66	80 68	75 66	75 66	79 63	79 64	80 61	81 62	78 61	79 62	80 67	79 65	79 66	79 66	80 65	82 63	82 65	78 68	84 65	81 65	85 69	79 64	76 66	79 66	81 66	81 69	78 64	77 65	76 66	79.3 64.8	
KAANAPALI AIRPORT	MAX MIN	82 64	81 65	81 66	81 66	78 64	77 64	80 63	78 65	79 65	80 61	80 59	80 67	80 63	80 64	81 65	79 64	78 60	80 65	79 67	80 67	74 65	80 69	81 68	80 69	79 65	81 67	81 69	80 64	79 65	79 65	79.6 64.8	
KAMULUI WSO 398	MAX MIN	85 61	85 60	86 60	80 59	82 66	83 68	80 66	82 67	83 67	83 67	82 67	80 69	83 62	82 63	83 68	82 59	82 56	82 56	80 61	80 71	75 69	84 70	84 72	85								

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

HAWAII
MARCH 1971

Station		Day of Month																															1971
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
LAWA'INA 361	MAX MIN	84 65	84 63	84 64	83 63	83 66	83 63	83 66	83 63	83 67	83 63	82 63	83 63	83 64	84 67	84 66	85 63	84 63	81 62	82 63	80 68	83 65	81 67	83 72	83 68	83 64	84 68	85 65	84 65	84 65	84 67	82 66	83.1 65.1
WAILUKU 386	MAX MIN	82 65		83 67	81 67	77 66	75 67		85 68	78 67	79 66	79 66	77 67	77 68		78 67	77 67	78 67	77 63	78 64			79 61	80 67	84 66	82 65	79 65			78 67	75 67	78 68	79.0 66.2
* * *																																	
ISLAND OF HAWAII																																	
HA'INA 214	MAX MIN	77 61	78 63	78 65	78 64	77 62	75 63	76 64	77 62	77 63	77 61	78 61	78 62	77 63	75 63	78 65	77 64	76 62	78 60	80 59	80 64	81 65	80 66	81 68	83 65	82 66	75 64	69 64	73 64	76 65	78 62	78 62	77.5 63.3
HAWAII VOLCANO NP HD 54	MAX MIN	68 48	59 52	69 48	65 48	59 51	58 49	63 48	62 48	65 51	66 47	66 49	61 51	61 50	67 53	65 52	66 51	67 49	66 54	68 53	67 57	68 57	63 58	72 55	68 50	72 56	64 55	61 55	61 51	67 52	66 48	62 49	64.9 50.7
HILO WSO 87	MAX MIN	78 60	79 63	80 59	75 58	75 63	75 61	77 59	75 61	78 60	75 59	78 60	77 63	75 62	77 62	77 62	79 59	79 58	80 54	82 56	79 57	86 63	84 64	83 62	83 60	72 63	73 65	73 65	64 63	78 62	78 58	78 58	78.0 60.8
KAINALI'U 73.2	MAX MIN	78 58	78 58	76 59	77 59	76 59	75 59	77 58	76 58	76 58	76 59	77 58	76 58	78 60	77 61	77 59	76 60	77 61	77 59	72 58	77 62	79 65	79 62	80 61	83 62	72 62	73 63	73 65	77 64	75 61	74 60	76 55	76.5 60.1
KAMUFLA 192.2	MAX MIN	74 46	74 49	75 48	71 51	72 54	69 56	68 54	66 55	67 55	70 53	69 54	68 55	66 54	70 56	71 55	68 53	70 53	74 53	74 44	75 47	72 56	78 55	78 56	78 53	79 56	68 56	68 56	68 54	70 56	70 55	75 55	71.5 53.3
KEAAU 92	MAX MIN	79 62	76 63	77 61	78 59	75 61	75 62	78 61	78 61	76 63	77 62	74 61	78 63	78 63	79 64	76 60	78 63	77 60	76 60	80 60	82 60	84 62	84 65	82 68	82 67	72 66	72 66	74 64	77 65	77 63	76 61	76 61	77.6 62.6
KEALAKEKUA 26.2	MAX MIN	77 59	76 60	77 60	77 60	77 59	77 60	75 60	76 60	76 59	77 60	78 62	78 61	77 60	77 61	79 60	77 61	78 64	78 60	71 60	78 62	80 63	80 62	80 61	79 62	74 63	75 62	73 63	77 62	74 61	77 61	74 60	76.5 60.9
KOHALA MISSION 175.1	MAX MIN	78 62	75 65	76 66	77 65	74 63	74 64	70 63	76 62	76 64	76 63	77 64	73 62	71 64	77 65	76 66	73 65	76 66	79 60	80 60	81 65	80 66	81 65	78 65	82 64	76 64	68 59	75 64	77 65	76 65	76 65	76 65	76.2 63.5
KONA (KAILUA) 68.3	MAX MIN	83 65	80 66	83 66	82 67	81 66		82 66	81 66	82 66	82 65	82 66	82 66			84 66	82 66	83 66	83 66	82 65			84 67	83 69	87 68	80 69	82 69			83 67	81 69	82 68	82.4 66.7
KULANI CAMP 79	MAX MIN	53 43	55 43	58 40	59 47	55 48	54 44	59 43	59 45	60 46	60 43	63 47	57 47	55 45	62 49	59 47	64 50	62 49	62 53	68 38	70 39	65 51	70 54	65 51	71 52	72 51	59 51	58 48	60 48	61 46	52 45	60.3 45.7	
MAUNA LOA SLOPE DBS	MAX MIN	53 31	52 32	48 32	49 31	50 29	52 36	53 33	56 31	55 34	54 35	53 35	53 32	52 38	57 35	57 35	55 32	54 33	52 33	57 36	53 37	46 36	53 34	55 34	53 32	46 36	45 36	49 35	48 32	48 31	46 33	44 33	51.4 33.5
MOUNTAIN VIEW 91	MAX MIN	75 57	69 59	73 56	74 55	66 56	70 57	70 57	70 58	73 56	69 55	72 58	72 58	72 58	73 57	74 58	74 54	76 57	79 56	79 54	79 53	79 53	81 53	81 61	81 60	69 64	75 62	75 59	73 59	73 58	69 56	73.5 57.2	
NA'ALEHU 14	MAX MIN	75 64	71 63	75 64	75 64	75 64	75 64	75 63	75 63	75 64	75 63	73 63	73 65	73 65	77 63	77 63	76 65	75 62	75 60	75 62	82 62	75 64	80 68	75 64	80 65	76 65	76 65	76 64	76 64	76 65	76 63	75.9 63.7	
ODKALA 723	MAX MIN	77 64	76 61	77 63	78 63	78 61	74 62	76 61	76 62	76 61	76 63	77 63	78 61	74 61	80 63	76 62	76 61	77 61	76 59	80 59	82 59	81 65	81 65	80 66	81 68	81 63	76 61	78 62	78 61	77 62	77 63	77.7 62.6	
OPIHIHALE 2 24.1	MAX MIN	74 56	76 56	75 54	71 55	73 55	73 56	76 57	73 57	74 56	76 57	74 57	75 57	77 57	74 58	71 55	78 57	71 55	71 55	81 55	80 64	83 62	82 58	79 59	76 60	75 63	71 63	73 61	72 59	74 61	72 63	74 63	75.0 58.0
PAHALA 21	MAX MIN	77 61	71 62	75 61	77 61	76 62		76 58	78 59	77 58	76 59	76 60				78 60	82 61	76 57	76 57				81 60	78 65	82 61	74 64	75 64			77 63	77 61	77 59	76.7 60.5
PUAKU 95.1	MAX MIN	83 63	80 61	82 62	82 63	80 63	79 67	83 65	83 65	83 65	83 62	84 63	84 62	83 65	82 65	86 66	84 63	83 63	81 55	83 62	83 62	85 69	83 66	84 66	85 66	82 67	86 66	82 67	85 66	85 64	84 64	84 66	83.1 64.2
UPOLU POINT USCG 159.2	MAX MIN	81 69	79 68	78 69	79 67	78 67	78 67	78 65	77 65	75 65	78 65	78 66	79 66	77 65	80 68	80 68	78 64	79 68	80 65	80 73	82 70	80 64	81 69	84 73	84 70	82 69	76 65	73 66	78 68	79 68	77 66	79 67	78.9 67.5
WAI'IEA KOHALA	MAX MIN	72 45	71 45	72 44	71 47	70 54	68 51	67 51	67 51	68 50	70 46	69 47	60 54	67 49	70 54	72 54	69 45	70 44	73 44	72 42			72 55	76 54	68 50	66 50	66 53	67 59	70 56	70 54	73 52	70.1 50.4	

EVAPORATION AND WIND

Station		Day Of Month																															Total Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WSO 1020.1	EVAP WIND MAX MIN	.24 135 83 61	.27 150 85 63	.13 141 79 62	.32 245 79 62	.30 234 79 60	.26 211 74 59	.23 231 76 65	.19 198 78 60	.34 204 78 60	.18 181 76 61	.27 135 79 61	.29 227 78 61	.30 233 79 61	.31 132 83 61	.23 191 76 61	.22 211 83 61	.31 111 79 60	.12 78 83 60	.20 120 77 60	.17 175 70 61	.04 50 57	.11 65 57	- 152 73	.17 157 74	- 164 77	.07 257 74	.18 243 68	.21 206 77	.29 203 79	.31 276 79	.16 198 73	6.868 55.2 76.8 61.4
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP WIND MAX MIN	.14 76 66	.30 90 64	.12 83 63	.30 88 62	.19 85 63	.29 85 62	.19 83 62	.21 84 62	.24 84 63	.23 87 62	.30 87 62	.16 32 62	.30 43 59	.13 18 61	.20 37 63	.30 35 62	.30 22 61	.19 21 65	.21 18 62	.22 89 63	.13 50 64	.12 65 64	.15 157 69	.15 40 69	.20 32 68	.12 25 64	.21 38 64	.21 25 64	.30 39 64	.42 98 64	.11 21 65	6.64 1006 84.4 63.5

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HAWAII
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STATION	INDEX NO.	DIVISION	DISTRICT	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER		
							TEMP.	PRECIP.	EVAP.	SPECIAL									TEMP.	PRECIP.	EVAP.	SPECIAL			
ISLAND OF LANAI																									
KAUAIKAPU HARBOUR 658	A 3461	01	LANAI	12 0 47	157 00	30						KAUAIKAPU HARBOUR 658	A 3461	01	LANAI	12 0 47	157 00	30						OLE COMPANY	
LANAI CITY 672	A 5288	01	LANAI	12 0 50	156 55	1620	7A					LANAI CITY 672	A 5288	01	LANAI	12 0 50	156 55	1620	7A						OLE COMPANY
LANAIHOLE 673	A 5301	01	LANAI	12 0 49	156 53	1370						LANAIHOLE 673	A 5301	01	LANAI	12 0 49	156 53	1370							OLE COMPANY
LANAIHOLE 674	A 5302	01	LANAI	12 0 48	156 53	1430						LANAIHOLE 674	A 5302	01	LANAI	12 0 48	156 53	1430							OLE COMPANY
LANAIHOLE 675	A 5303	01	LANAI	12 0 47	156 53	1150						LANAIHOLE 675	A 5303	01	LANAI	12 0 47	156 53	1150							OLE COMPANY
ISLAND OF MAUI																									
ALANUI-252	A 0175	02	HANA	2 0 37	156 20	2040						ALANUI-252	A 0175	02	HANA	2 0 37	156 20	2040							ULUPAKUA RANCH
FIELD 40 474	A 0541	04	LANAI	4 0 59	156 38	1050						FIELD 40 474	A 0541	04	LANAI	4 0 59	156 38	1050							MAUI PINEAPPLE CO.
HALEKALA 477	A 0790	04	LANAI	4 0 57	156 38	2980						HALEKALA 477	A 0790	04	LANAI	4 0 57	156 38	2980							MAUI PINEAPPLE CO.
HALEKALA 478	A 0899	01	MAKAWA	12 0 51	156 18	2100	7A					HALEKALA 478	A 0899	01	MAKAWA	12 0 51	156 18	2100	7A						MAUI PINEAPPLE CO.
HALEKALA 479	A 0999	01	MAKAWA	12 0 50	156 19	1880						HALEKALA 479	A 0999	01	MAKAWA	12 0 50	156 19	1880							MAUI PINEAPPLE CO.
HALEKALA 480	A 1004	02	MAKAWA	2 0 48	156 18	7030						HALEKALA 480	A 1004	02	MAKAWA	2 0 48	156 18	7030							MAUI PINEAPPLE CO.
HALEKALA SUMMIT 339.4	A 1008	02	MAKAWA	2 0 43	156 16	9960	8A					HALEKALA SUMMIT 339.4	A 1008	02	MAKAWA	2 0 43	156 16	9960	8A						MAUI PINEAPPLE CO.
HALEKALA 482.2	A 1016	02	MAKAWA	2 0 43	156 17	890						HALEKALA 482.2	A 1016	02	MAKAWA	2 0 43	156 17	890							MAUI PINEAPPLE CO.
HALEKALA 483	A 1075	01	MAKAWA	12 0 52	156 21	1070						HALEKALA 483	A 1075	01	MAKAWA	12 0 52	156 21	1070							MAUI PINEAPPLE CO.
HALEKALA 485	A 1086	01	MAKAWA	12 0 53	156 21	370						HALEKALA 485	A 1086	01	MAKAWA	12 0 53	156 21	370							MAUI PINEAPPLE CO.
ISLAND OF OAHU																									
HANA 354	A 1122	01	HANA	12 0 45	155 59	170	8A					HANA 354	A 1122	01	HANA	12 0 45	155 59	170	8A						HAPPY HASEGAWA
HANA AIRPORT 355	A 1125	01	HANA	12 0 46	156 01	611	11A					HANA AIRPORT 355	A 1125	01	HANA	12 0 46	156 01	611	11A						HAWAIIAN AIRLINES
HANALEI 281	A 1149	01	HANA	12 0 45	156 01	355						HANALEI 281	A 1149	01	HANA	12 0 45	156 01	355							HAWAIIAN AIRLINES
HANALEI 282	A 1152	02	MAKAWA	2 0 45	156 13	6930						HANALEI 282	A 1152	02	MAKAWA	2 0 45	156 13	6930							HALEKALA NATL. PARK PGS
HANALEI 283	A 1182	04	LANAI	4 0 58	156 36	870						HANALEI 283	A 1182	04	LANAI	4 0 58	156 36	870							MAUI LAND-PINEAPPLE CO.
HANALEI 284	A 1183	04	LANAI	4 0 57	156 36	135	6A					HANALEI 284	A 1183	04	LANAI	4 0 57	156 36	135	6A						MAUI LAND-PINEAPPLE CO.
HANALEI 285	A 1184	04	LANAI	4 0 56	156 36	125						HANALEI 285	A 1184	04	LANAI	4 0 56	156 36	125							MAUI LAND-PINEAPPLE CO.
HANALEI 286	A 1185	04	LANAI	4 0 55	156 36	120						HANALEI 286	A 1185	04	LANAI	4 0 55	156 36	120							MAUI LAND-PINEAPPLE CO.
HANALEI 287	A 1186	04	LANAI	4 0 54	156 36	115						HANALEI 287	A 1186	04	LANAI	4 0 54	156 36	115							MAUI LAND-PINEAPPLE CO.
HANALEI 288	A 1187	04	LANAI	4 0 53	156 36	110						HANALEI 288	A 1187	04	LANAI	4 0 53	156 36	110							MAUI LAND-PINEAPPLE CO.
HANALEI 289	A 1188	04	LANAI	4 0 52	156 36	105						HANALEI 289	A 1188	04	LANAI	4 0 52	156 36	105							MAUI LAND-PINEAPPLE CO.
HANALEI 290	A 1189	04	LANAI	4 0 51	156 36	100						HANALEI 290	A 1189	04	LANAI	4 0 51	156 36	100							MAUI LAND-PINEAPPLE CO.
HANALEI 291	A 1190	04	LANAI	4 0 50	156 36	95						HANALEI 291	A 1190	04	LANAI	4 0 50	156 36	95							MAUI LAND-PINEAPPLE CO.
HANALEI 292	A 1191	04	LANAI	4 0 49	156 36	90						HANALEI 292	A 1191	04	LANAI	4 0 49	156 36	90							MAUI LAND-PINEAPPLE CO.
HANALEI 293	A 1192	04	LANAI	4 0 48	156 36	85						HANALEI 293	A 1192	04	LANAI	4 0 48	156 36	85							MAUI LAND-PINEAPPLE CO.
HANALEI 294	A 1193	04	LANAI	4 0 47	156 36	80						HANALEI 294	A 1193	04	LANAI	4 0 47	156 36	80							MAUI LAND-PINEAPPLE CO.
HANALEI 295	A 1194	04	LANAI	4 0 46	156 36	75						HANALEI 295	A 1194	04	LANAI	4 0 46	156 36	75							MAUI LAND-PINEAPPLE CO.
HANALEI 296	A 1195	04	LANAI	4 0 45	156 36	70						HANALEI 296	A 1195	04	LANAI	4 0 45	156 36	70							MAUI LAND-PINEAPPLE CO.
HANALEI 297	A 1196	04	LANAI	4 0 44	156 36	65						HANALEI 297	A 1196	04	LANAI	4 0 44	156 36	65							MAUI LAND-PINEAPPLE CO.
HANALEI 298	A 1197	04	LANAI	4 0 43	156 36	60						HANALEI 298	A 1197	04	LANAI	4 0 43	156 36	60							MAUI LAND-PINEAPPLE CO.
HANALEI 299	A 1198	04	LANAI	4 0 42	156 36	55						HANALEI 299	A 1198	04	LANAI	4 0 42	156 36	55							MAUI LAND-PINEAPPLE CO.
HANALEI 300	A 1199	04	LANAI	4 0 41	156 36	50						HANALEI 300	A 1199	04	LANAI	4 0 41	156 36	50							MAUI LAND-PINEAPPLE CO.
HANALEI 301	A 1200	04	LANAI	4 0 40	156 36	45						HANALEI 301	A 1200	04	LANAI	4 0 40	156 36	45							MAUI LAND-PINEAPPLE CO.
HANALEI 302	A 1201	04	LANAI	4 0 39	156 36	40						HANALEI 302	A 1201	04	LANAI	4 0 39	156 36	40							MAUI LAND-PINEAPPLE CO.
HANALEI 303	A 1202	04	LANAI	4 0 38	156 36	35						HANALEI 303	A 1202	04	LANAI	4 0 38	156 36	35							MAUI LAND-PINEAPPLE CO.
HANALEI 304	A 1203	04	LANAI	4 0 37	156 36	30						HANALEI 304	A 1203	04	LANAI	4 0 37	156 36	30							MAUI LAND-PINEAPPLE CO.
HANALEI 305	A 1204	04	LANAI	4 0 36	156 36	25						HANALEI 305	A 1204	04	LANAI	4 0 36	156 36	25							MAUI LAND-PINEAPPLE CO.
HANALEI 306	A 1205	04	LANAI	4 0 35	156 36	20						HANALEI 306	A 1205	04	LANAI	4 0 35	156 36	20							MAUI LAND-PINEAPPLE CO.
HANALEI 307	A 1206	04	LANAI	4 0 34	156 36	15						HANALEI 307	A 1206	04	LANAI	4 0 34	156 36	15							MAUI LAND-PINEAPPLE CO.
HANALEI 308	A 1207	04	LANAI	4 0 33	156 36	10						HANALEI 308	A 1207	04	LANAI	4 0 33	156 36	10							MAUI LAND-PINEAPPLE CO.
HANALEI 309	A 1208	04	LANAI	4 0 32	156 36	5						HANALEI 309	A 1208	04	LANAI	4 0 32	156 36	5							MAUI LAND-PINEAPPLE CO.
HANALEI 310	A 1209	04	LANAI	4 0 31	156 36	0						HANALEI 310	A 1209	04	LANAI	4 0 31	156 36	0							MAUI LAND-PINEAPPLE CO.
HANALEI 311	A 1210	04	LANAI	4 0 30	156 36	0						HANALEI 311	A 1210	04	LANAI	4 0 30	156 36	0							MAUI LAND-PINEAPPLE CO.
HANALEI 312	A 1211	04	LANAI	4 0 29	156 36	0						HANALEI 312	A 1211	04	LANAI	4 0 29	156 36	0							MAUI LAND-PINEAPPLE CO.
HANALEI 313	A 1212	04	LANAI	4 0 28	156 36	0						HANALEI 313	A 1212	04	LANAI	4 0 28	156 36	0							MAUI LAND-PINEAPPLE CO.
HANALEI 314	A 1213	04	LANAI	4 0 27	156 36	0						HANALEI 314	A 1213	04	LANAI	4 0 27	156 36	0							MAUI LAND-PINEAPPLE CO.
HANALEI 315	A 1214	04	LANAI	4 0 26	156 36	0						HANALEI 315	A 1214	04	LANAI	4 0 26	156 36	0							MAUI LAND-PINEAPPLE CO.
HANALEI 316	A 1215	04	LANAI	4 0 25	156 36	0						HANALEI 316	A 1215	04	LANAI	4 0 25	156 36	0							MAUI LAND-PINEAPPLE CO.
HANALEI 317	A 1216	04	LANAI	4 0 24	156 36	0						HANALEI 317	A 1216	04	LANAI	4 0 24	156 36	0							MAUI LAND-PINEAPPLE CO.
HANALEI 318	A 1217	04	LANAI	4 0 23	15																				

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HAWAII
MARCH 1971

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL										TEMP	PRECIP	EVAP	SPECIAL	
ISLAND OF HAWAII																									
MOUNTAIN VIEW 91	A 6552	02	PUNA	2	19 33	155 07	1330	8A	8A			PUNA SUGAR CO	WAIKAEA SCD 89.2	9025	02	S HILO	2	19 40	155 08	1090		7A			SHINICHI KANESHIRO
NAILEHU 14	A 6588	03	KAU	4	19 28	155 35	395	8A	8A			MUTHINSON SUGAR CO	WAIKONDOLA 179.6	9350	01	N KOHALA	1	20 08	155 47	3090		7A			KAHUA RANCH
NAUULU FOREST 30.6	A 6697	04	S KONA	2	19 19	155 04	1400		7A			KONA EXPERIMENT STA	WAIHEA KOHALA	9554	05	S KOHALA	4	20 00	155 40	2665	8A	8A			HAWAIIAN AIRLINES
NTULIT 179	A 6806	01	N KOHALA	2	20 14	155 45	75		7A			HAWAII VOLCANOES NAT PK	NEW STATIONS												
OKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			KONA SUGAR CO	ISLAND OF OAHU												
OPIMAHLE 2 24.1	7186	04	S KONA	4	19 16	155 33	1270	7A	7A			LAUPAHOEHUE SUGAR CO													
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		7A			MISS C. LEONARD													
PAUHAU 217	7204	01	MAHAKUA	1	20 05	155 26	415		7A			BOARD OF WATER SUPPLY	MANANA 754.2	6089	03	OAHU	3	21 25	157 58	240					CLARENCE LEE
PAUHAU 221	7312	01	MAHAKUA	1	20 03	155 22	800		7A			PAUHAU SUGAR CO													
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870	8A	8A			HAWAIIAN AGR CO													
PANOA 85	7437	02	PUNA	2	19 30	154 57	870		8A			PUNA SUGAR COMPANY													
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		8A			HAWAIIAN RANCH CO, INC.													
PAPAIOU 144.1	7711	02	S HILO	2	19 47	155 06	200		7A			MAUNA KEA SUGAR CO.													
PAPAIOU MAHUA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO.													
PEPERKEO MAKAI 144	8000	02	S HILO	2	19 51	155 05	100		7A			PEPERKEO SUGAR CO.													
PITHUNIA 89	A 8051	02	S HILO	2	19 44	155 10	1730					STATE DIV OF FORESTRY													
POHAKULUA 107	A 8063	02	MAHAKUA	2	19 45	155 32	6311		VAR			STATE DIVISION OF PARKS													
PJAKO 95.1	A 8186	05	KOHALA	5	19 59	155 50	5	0A	8A			ERWIN M. RAPP													
PJUI KHE 120	A 8393	01	MAHAKUA	1	19 54	155 24	7750					KUKAIAU RANCH CO													
PJUI LAU 102.1	A 8452	05	MAHAKUA	5	19 50	155 36	7440					STATE DIV OF FISH-GAME													
PJUI LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880					GREENWELL RANCH													
PJUI MALI 113	A 8515	01	MAHAKUA	1	19 55	155 26	6960		7A			KUKAIAU RANCH CO													
PJUIKUHAI 107	A 8548	08	N KOHALA	1	20 12	155 50	1800		7A			KOHALA QITCH CO LTD													
PJUI OD 62	A 8550	02	S HILO	2	19 44	155 23	6340		8A			DOH WINTERS													
PJUI WAWAHA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A			DILLINGHAM RANCH INC													
SADOLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY													
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500					HAWAIIAN RANCH COMPANY													
UPKOA 118	8780	01	MAHAKUA	1	19 59	155 23	3420		7A			KUKAIAU RANCH CO													
UMUKO POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD													

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.
- + No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.
- And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly, usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

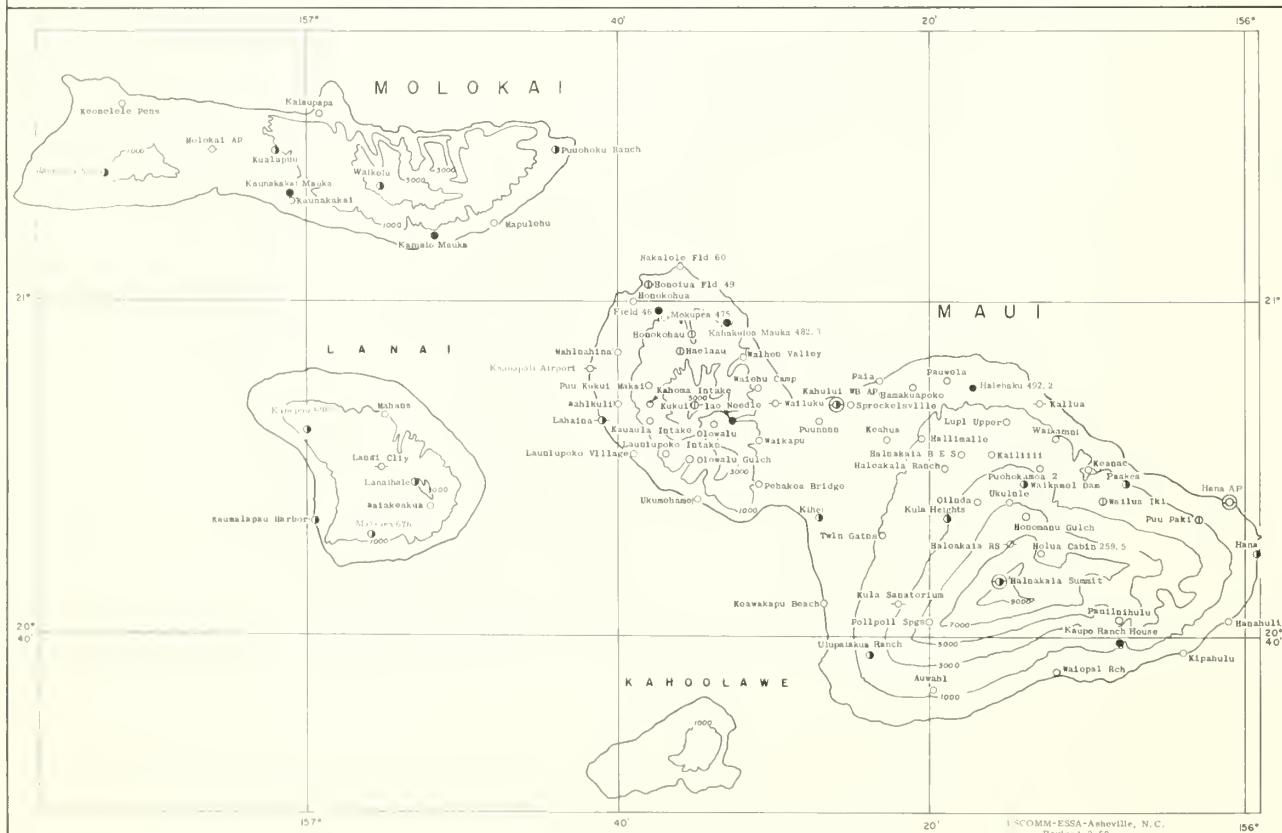
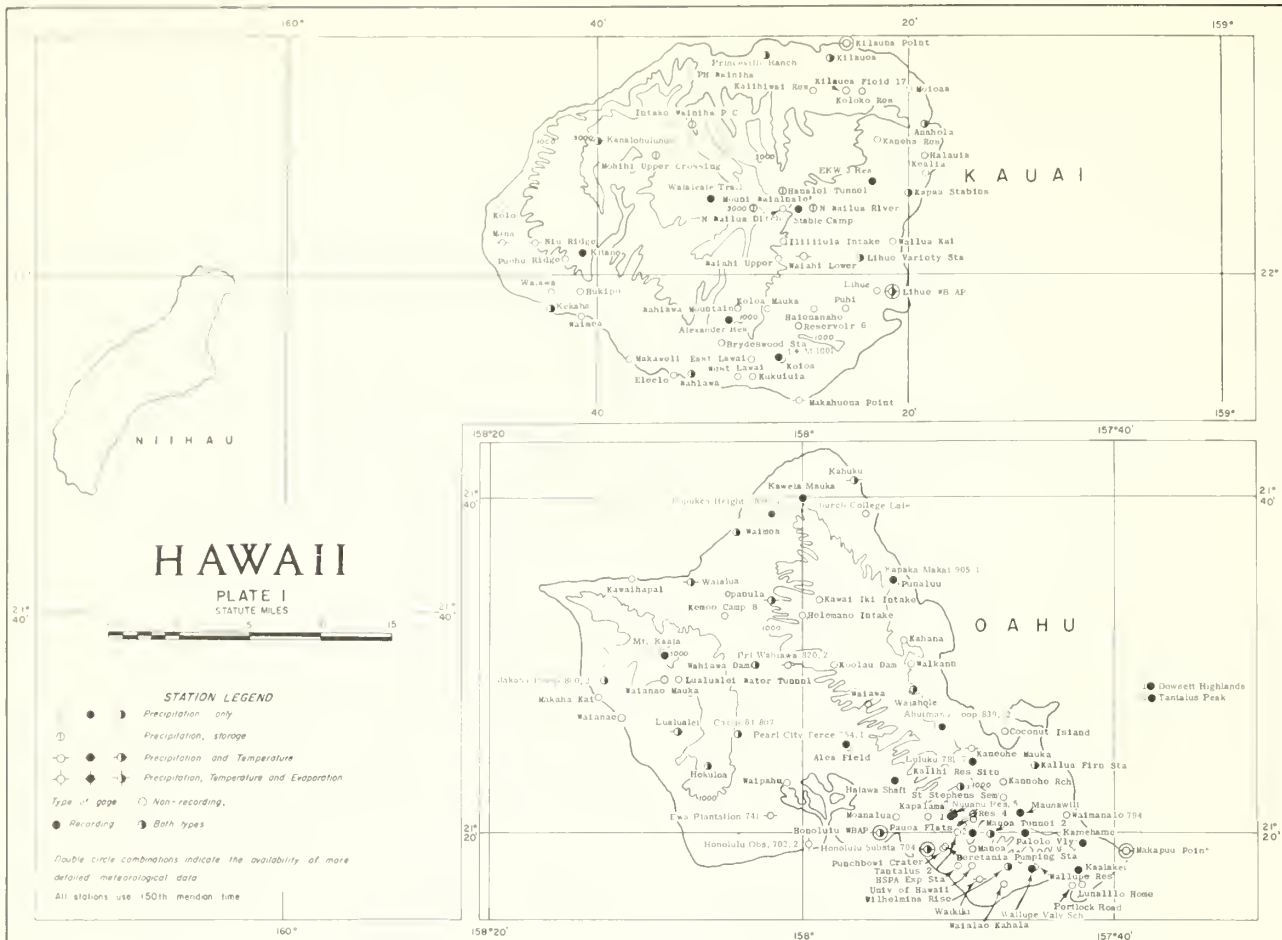
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

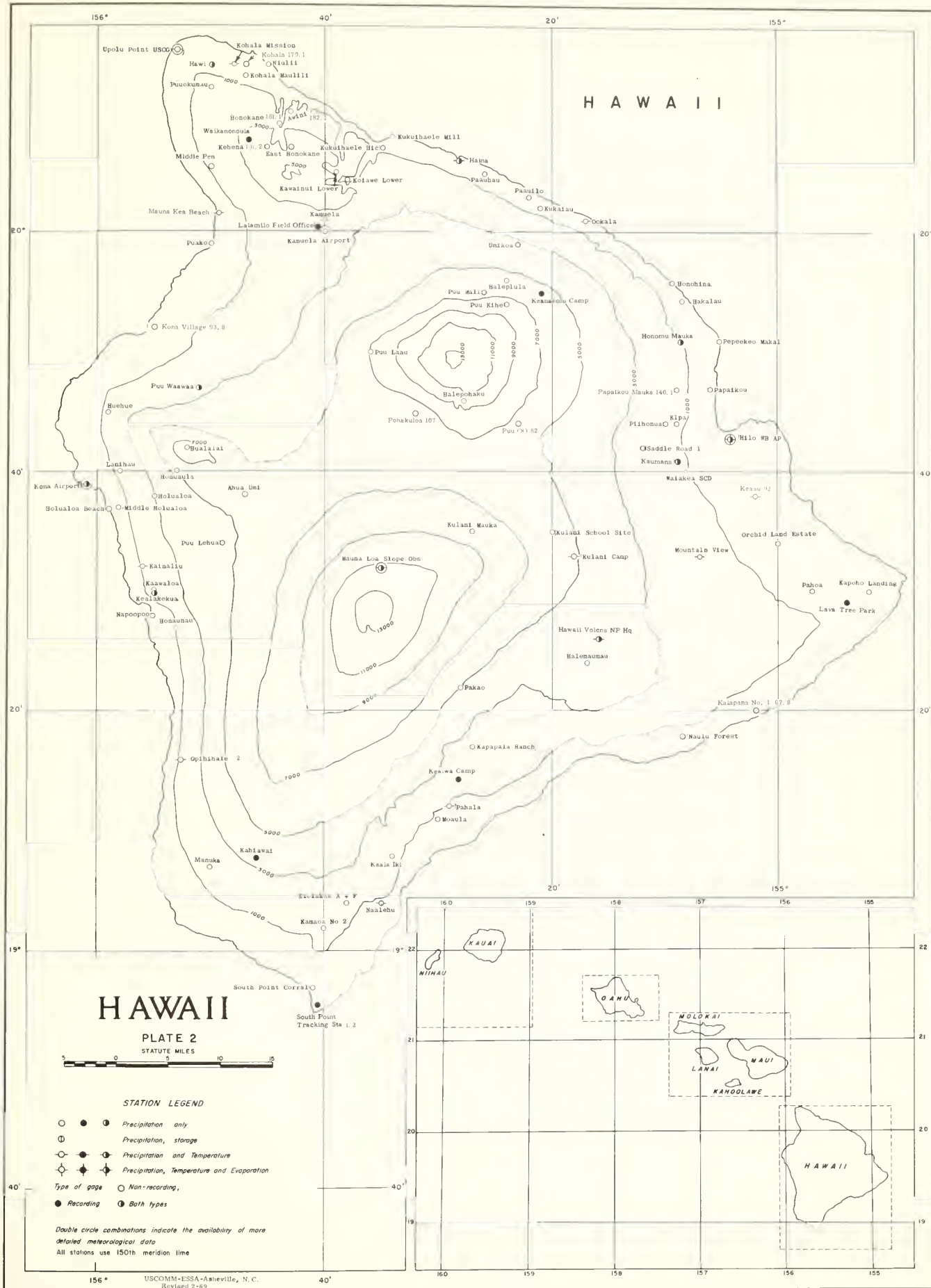
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOM-NOA-ASHEVILLE-6/25/71-890





CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
APRIL 1971
Volume 67 No. 4

AUG 17 1971

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature										Precipitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
											Max.	Min.	Total	Total				Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 43

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
APRIL

1971

Continued

Station	Temperature											Precipitation																	
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days								
										Max.	Min.	Total	Departure From Normal					Greatest Day	Date	Total	Max. Depth on Ground	Date	10 or More	50 or More	1.00 or More				
																										10° or Above	31° or Above	Snow or Ice	0° or Below
KFAAU 92	76.5	64.7	70.6	- .5	82	4	62	1		0	0	0	0	30.24	17.82	9.54	24	.0	0		25	10	9						
KEALAKEKUA 26.2	75.4	62.0	68.7		79	15+	59	21		0	0	0	0	6.12		3.12	17	.0	0		9	2	2						
KONA (KAILUA) 68.3	82.0M	68.8M	75.4M		85	8+	61	12		0	0	0	0	2.06		.0		.0	0			0	0						
KUKI IMAELE H/C 199														7.18	- 2.05	2.18	19	.0	0		14	3	3						
KULANI CAMP 79	61.2	47.3	54.3		69	30	43	16+		0	0	0	0	8.93		2.03	24	.0	0		18	5	2						
PAAHALA 21														9.33	6.17			.0	0										
POMAKULOA 107				- .2	84	7	59	12		0	0	0	0	1.38		.08	25	.0	0				0						
PUAKO 95.1					87	20	65	26		0	0	0	0	.10		.95	20	.0	0		0	0	0						
PUU WAAHAA 94.1														2.79	.49	.95	20	.0	0		2	0	0						
UMIWA 118														7.07	- 2.26	2.77	19	.0	0				1						
HAKAFA SCU 89.2														30.06		7.69	24	.0	0		26	14	10						
WAIHEA KOHALA	71.3M	55.5M	63.4M		77	26+	49	18		0	0	0	0	.74		.16	21	.0	0		3	0	0						
ISLAND			68.0											9.49				.0											

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 91° ON THE 17+ AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 28° ON THE 19+ AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 90.07 AT MOUNT WAIALEALE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .10 AT PUAKO 95.1, HAWAII

GREATEST ONE-DAY PRECIPITATION: 11.00 ON THE 24TH AT PAAKEA 350, MAUI

SPECIAL WEATHER SUMMARY

April fulfilled its traditional role as a month of transition between Hawaii's winter and summer seasons. Although the weather was not particularly severe, thunderstorms were numerous and accompanied at times by hail, by intense rains that gave rise to local flooding and landslides, and by snow on high mountain peaks. Skies were somewhat cloudier than the seasonal norm, with cirrus clouds being reported on about 8 out of 10 days.

The unsettled weather and high clouds were associated with a persistent upper-level trough (low pressure area) which lay over and immediately west of the Hawaiian Islands on about 90 percent of the days in April. At the same time, as a forerunner of the approaching warmer half-year, trade winds at Honolulu Airport prevailed on all but 2 days, with 91 percent of the hourly observations showing winds from directions north-northeast through east, as compared to the April normal of 71 percent.

This combination of low pressure aloft and the ascent of moist trade winds over Hawaii's topographic barriers has been responsible for some of the State's heaviest rains, particularly over mountains and coasts that directly face the trades.

Thunderstorms occurred somewhere in the State on at least 10 days: the 3d, 7th, 15th, 16th, 18th through 21st, and 23d and 24th. The month's first outbreak began on the 3d, and affected all the major islands. Runoff and landslides from heavy thunderstorm and other rains in north Kauai from Haena to Kilauea on the 3d, 4th, and 7th (when Kilauea recorded 6.90 inches between 1 a.m. and 3 a.m., and Princeville Ranch, 3.45 inches between midnight and 3 a.m.) did an estimated \$50,000 in damage to pavements, shoulders, gutters, and drainage structures of Kauai Belt Road. The Hanalei and Kalihiwai Rivers overflowed, destroying a few acres of eggplants, peppers, and tomatoes. No damage to sugarcane fields was reported, but production was slowed. On the 3d lightning struck a parked car at Kapaa, Kauai, and cracked its rear window.

Meanwhile, thunderstorms dropped 5.40 inches of rain at Leilehua, Oahu, between 1 p.m. and 4 p.m. on the 3d, and mantled Mauna Loa and Mauna Kea with snow on the night of the 4th.

Late on the 15th and on the afternoon of the 16th, intense thunderstorms, accompanied by lightning, snow, and hail, knocked out the television transmitter at Haleakala Summit. On the 19th, the temperature there dropped to freezing (32°), and the next day -- the 20th -- thunderstorms hit Haleakala Summit again with hail and snow and

east Maui's Hana district with flooding rains and a landslide.

Nor was Hawaii Island being spared. Intermittent thunderstorms between the 14th and 19th brought lightning and hail to Mauna Loa and Mauna Kea and snow that blanketed their summits down to 10,000 feet and remained in patches for the rest of the month. On the 16th, Captain Cook, Kona, reported lightning strikes, knocked-out power and telephone lines, 1/4-inch hailstones, and 2.75 inches of rain between 10:25 a.m. and 1 p.m. Pohakuloa, on Mauna Kea's southern flank, had 1/2-inch hailstones on the 16th and 1/4-inch hailstones on the 17th. On the 19th, minor flooding occurred at Waiakea Uka, on the windward slopes above Hilo, and a landslide on the road at Ahualoa.

A final outbreak of thunderstorms toward the end of the month appears to have affected principally Kauai and Hawaii Islands, the northernmost and southernmost major islands of the State. Scattered thunderstorm rains on the 23d and 24th caused landslides onto Kuhio Highway at Wainiha and flooded the Hanalei River in northern Kauai, where Koloko Reservoir and Kilauea recorded 3.60 inches and 2.45 inches of rain, respectively, between 3 a.m. and 6 a.m. of the 24th. In the southern part of the island, storm runoff and overflow from a reservoir caused an estimated \$3,000 in damage to Kaumualii Highway, and mud and debris washed down from a subdivision in Eleele onto the intersection of Kaumualii Highway and Eleele Heights Subdivision Road.

The 23d was a day of torrential rain for the Hilo, Hawaii, area also, where nine of Hilo's businesses and homes were flooded, with damage to one of the homes estimated at \$10,000. Hilo Airport had a 24-hour total of 9.66 inches, with intensities of 1.95 inches in 1 hour, 3.33 inches in 2 hours, and 4.77 inches in 3 hours. Lava Tree Park recorded 5.85 inches of rain between 8:10 p.m. on the 23d and 4:55 a.m. on the 24th.

The wet weather in Hawaii Island's Puna area made phytophthora (a fungus disease) difficult to control and affected papaya trees had to be destroyed.

The month's weather also included a number of funnel cloud sightings, most of them associated with the thundery conditions: on the 18th a waterspout 4 miles northeast of Lihue Airport and moving westward for a few minutes before dissipating; on the 22d a funnel cloud, not reaching the sea surface, 15 miles south-southwest of Oahu's Waikiki Beach; on the 23d a water-

SPECIAL WEATHER SUMMARY - Continued

spout 5 miles northeast of Hilo in Hilo Bay; and on the 24th a funnel cloud observed briefly 5 miles south-southwest of Honolulu Airport, Oahu.

Monthly rainfall averages were more generally and greatly exceeded on the northern than on the southern islands of the State. Kauai was wet everywhere, with the northern and southern portions recording over four times their April norms. On Oahu only the eastern tip had below-normal rainfall. But despite the month's fre-

quent widespread thunderstorms, rainfall was below normal in western Molokai, all of Lanai, Maui's central valley and the southern half of west Maui, and Hawaii Island's Kohala and Hamakua coasts and the Waimea to Puako sections, with some gages in a number of these areas showing well-below half their April averages.

Long-record stations which exceeded their previous record April rainfall total are shown below.

Stations Whose Previous Greatest April Rainfall Totals were Exceeded in April 1971

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest April Total	April 1971
<u>KAUAI</u>		(Inches)	(Inches)
Brydeswood	62	17.47	17.80
Iliiliula Intake	37	28.76	34.75
Kilauea	86	23.25	23.67
North Wailua Ditch	44	33.64	44.58
Powerhouse Wainiha	64	30.03	34.05
Princeville Ranch	62	26.45	27.32
Wahiawa Mountain	71	29.30	31.25
Waiahi Lower	42	21.06	24.88
<u>OAHU</u>			
Kalihi Reservoir Site	44	24.00	24.28
Pauoa Flats	44	30.09	30.76

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DAILY PRECIPITATION

Continued

HAWAII
APRIL 1971

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KIOLAKAA & F 6	A	7.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KIPA 99.2	A	26.43	.77	1.07	2.53	.82	.66	.04	.15	.14	.17	.22	.08	1.49	.47	.05	.95	.66	.62	.23	.97	1.06	2.65	1.16	1.04	.94	.06	.28	.47	.73	1.16	.19		
KOHALA MAULILI 176	A	3.60	.17	.02	*	.62	.02	*	.05	.79	.10	.12	.09	.37	.10	.12	.09	.37	.10	.12	.09	.37	.10	.12	.09	.37	.10	.12	.09	.37	.10	.12	.09	
KOHALA MISSION 175.1	A	3.27	.12	T	.09	.10	.18	.04	T	.05	.37	.01	.04	.18	.12	.01	.11	.59	.27	.04	.01	.33	.17	.14	.06	.09	.05	T	.01	.06	.05	.90		
KOIAKE LOWER 196	A	12.26	*	1.18	*	*	*	*	*	*	1.20	*	*	*	*	*	*	2.70	*	*	*	*	*	6.28	*	*	*	*	*	*	*	*	*	
KONA (KAILUA) 68.3	A	2.06	.28	*	*	*	*	.01	T	*	*	*	*	*	*	.01	.35	*	*	.56	.45	.05	.28	T	*	.28	T	*	.12	.02	*	*		
KONA VILLAGE 93.8	A	4.40	.77	.05	.79	.65	2.25	.01	.02	T	.76	.47	.05	.30	.12	.33	.25	1.28	.05	.08	.02	1.52	.03	.19	.22	.19	.22	.19	.22	.19	.22	.19		
KUKIAKU 222	A	10.37	.20	.20	.20	.02	1.12	.03	.05	.07	T	.76	.47	.05	.30	.12	.33	.25	1.28	.05	.08	.02	1.52	.03	.19	.22	.19	.22	.19	.22	.19	.22	.19	
KUKUIHALE HIC 199	A	7.18	.20	.20	.20	.02	1.12	.03	.05	.07	T	.76	.47	.05	.30	.12	.33	.25	1.28	.05	.08	.02	1.52	.03	.19	.22	.19	.22	.19	.22	.19	.22	.19	
KUKUIHALE MILL 206	A	4.92	.23	.10	*	.65	.01	*	*	*	.56	.12	.04	.03	.07	*	*	1.71	1.07	.10	.01	*	*	*	*	*	*	*	*	*	*	*		
KULANI CAMP 79	A	8.93	.12	.75	1.54	.07	.10	.05	*	*	*	.20	.05	*	*	.01	.01	.01	.24	.05	.28	.32	.95	.30	.26	2.03	.60	.12	.25	.27	.22	.14	*	
KULANI MAUKA 76	A	4.67	.53	.18	.34	.05	*	*	*	*	.20	.05	*	*	.01	.01	.01	.24	.05	.28	.32	.95	.30	.26	2.03	.60	.12	.25	.27	.22	.14	*		
KULANI SCHOOL SITE 78	A	8.58	.53	.18	.34	.05	*	*	*	*	.20	.05	*	*	.01	.01	.01	.24	.05	.28	.32	.95	.30	.26	2.03	.60	.12	.25	.27	.22	.14	*		
LANIMAU 68.2	A	5.49	.05	*	3.58	*	.86	*	*	*	.13	.05	*	*	.14	.21	.25	.14	.10	.11	.34	1.28	.10	.12	.15	.12	.15	.12	.15	.10	1.30	*	*	
MAKAMALAU 103	A	2.59	*	*	1.26	*	*	*	*	*	.13	.05	*	*	.14	.21	.25	.14	.10	.11	.34	1.28	.10	.12	.15	.12	.15	.12	.15	.10	1.30	*	*	
MAUKA 2	A	4.65	*	*	*	.20	*	*	*	*	*	.41	*	*	*	*	*	*	.60	1.40	.40	.30	.05	*	*	.90	*	*	.40	*	*	*		
MAUNA KEA BEACH 98	A	3.67	.22	*	*	*	*	.44	*	*	.05	*	.32	.09	.18	.34	.47	.23	.18	.10	.35	.67	*	*	1.20	*	*	*	*	.25	.74	*		
MAUNA LOA SLOPE OBS	A	3.73	.16	*	*	*	.03	*	*	*	*	.11	*	*	*	*	*	.23	.18	.10	.35	.67	*	*	1.20	*	*	*	*	.25	.74	*		
MIDDLE MAUWALA 68.1	A	3.73	.16	*	*	*	.03	*	*	*	*	.11	*	*	*	*	*	.23	.18	.10	.35	.67	*	*	1.20	*	*	*	*	.25	.74	*		
MIDDLE PEN 147.1	A	3.73	.16	*	*	*	.03	*	*	*	*	.11	*	*	*	*	*	.23	.18	.10	.35	.67	*	*	1.20	*	*	*	*	.25	.74	*		
MOAULA 18	A	8.52	.46	1.27	3.09	.40	.15	.11	.17	.10	.06	.04	.10	.81	.36	.10	.76	.30	.17	.35	2.92	1.12	2.74	1.14	1.17	7.86	.08	.33	.30	.86	.87	.41	*	
MOUNTAIN VIEW 91	A	28.59	.01	.53	1.56	T	.01	*	*	*	T	.05	*	*	*	*	*	.11	.02	.41	.17	.49	3.50	.56	.02	.31	.04	.06	*	*	*	*		
NAALEHU 14	A	7.85	.01	.53	1.56	T	.01	*	*	*	T	.05	*	*	*	*	*	.11	.02	.41	.17	.49	3.50	.56	.02	.31	.04	.06	*	*	*	*		
NAPOOPOO 28	A	4.00	.46	1.27	3.09	.40	.15	.11	.17	.10	.06	.04	.10	.81	.36	.10	.76	.30	.17	.35	2.92	1.12	2.74	1.14	1.17	7.86	.08	.33	.30	.86	.87	.41	*	
NAULU FOREST 38.6	A	4.00	.46	1.27	3.09	.40	.15	.11	.17	.10	.06	.04	.10	.81	.36	.10	.76	.30	.17	.35	2.92	1.12	2.74	1.14	1.17	7.86	.08	.33	.30	.86	.87	.41	*	
NIULII 179	A	3.59	.12	.05	*	.27	.02	*	*	*	.04	.10	.81	.36	.10	.76	.30	.17	.35	2.92	1.12	2.74	1.14	1.17	7.86	.08	.33	.30	.86	.87	.41	*		
ODKALA 223	A	10.65	.14	1.23	.64	.01	.87	.01	.04	.04	.68	.23	.09	.42	.32	.25	.25	.50	1.45	.96	.21	.14	1.83	.01	.34	.01	.34	.01	.34	.01	.34	.01	.34	
OPIMIALE 2 24.1	A	2.52	.01	.02	.03	.01	T	*	.01	.43	.02	.02	.31	.04	.03	.16	.06	.13	.16	.51	1.17	.17	.60	.05	.01	.01	.01	.01	.01	.01	.01	.01	.01	
ORCHIO LANO EST 91.5	A	33.90	.67	.70	.70	.31	.01	*	.01	.43	.02	.02	.31	.04	.03	.16	.06	.13	.16	.51	1.17	.17	.60	.05	.01	.01	.01	.01	.01	.01	.01	.01	.01	
PAHAU 217	A	4.39	.21	.16	.21	.31	.01	*	.01	.43	.02	.02	.31	.04	.03	.16	.06	.13	.16	.51	1.17	.17	.60	.05	.01	.01	.01	.01	.01	.01	.01	.01	.01	
PAAUILO 221	A	9.66	.03	.60	.48	.19	T	.77	.01	T	.77	.24	.03	.19	.17	.30	.08	2.19	.78	.33	.04	T	1.45	.05	T	.49	.04	.04	.02	.13	.23	.23	.23	
PAHALA 21	A	9.33	.08	.30	*	.17	T	.77	.01	T	.77	.24	.03	.19	.17	.30	.08	2.19	.78	.33	.04	T	1.45	.05	T	.49	.04	.04	.02	.13	.23	.23	.23	
PAHALA 65	A	30.61	1.33	1.19	4.75	.62	.22	.26	.27	.04	.05	.03	.06	.47	.19	.21	.12	.47	.20	.37	3.01	1.61	3.91	.65	2.85	6.41	.07	.27	.07	.37	.31	.23	.23	
PAHALA 144.1	A	8.58	.62	1.61	2.67	.58	.18	.11	.41	.07	.12	.02	.02	.79	.20	.05	.39	.64	.55	.01	1.05	1.92	4.06	1.13	.97	8.21	.08	.08	.07	.33	.09	.12	.12	
PAPAIAKU MAUKA 140.1	A	31.94	.33	1.12	3.03	.79	.46	.08	.25	.07	.09	.40	.15	.80	.55	.09	1.35	1.08	.81	.60	2.25	2.30	3.06	1.76	.73	6.93	.11	.23	.24	.77	.34	.17	.17	
PEPEEKOE MAUKA 144	A	22.88	1.20	.31	2.56	.80	.23	.05	.26	.01	.05	.01	.05	.23	.10	.11	.05	.68	.95	.12	.08	1.48	5.33	1.24	.83	5.48	.07	.02	.23	.28	.01	.06	.06	
PIIMOHUA 89	A	30.80	.67	.70	.70	.31	.01	*	.01	.43	.02	.02	.31	.04	.03	.16	.06	.13	.16	.51	1.17	.17	.60	.05	.01	.01	.01	.01	.01	.01	.01	.01	.01	
POHAKULDA 107	A	1.38	T	*	*	.05	.03	*	*	*	.23	*	*	*	*	*	*	.60	*	*	*	*	*	.45	*	*	*	.02	.08	*	.30	.80	.12	.12
PUAKO 95.1	A	1.10	T	*	*	.05	.03	*	*	*	.23	*	*	*	*	*	*	.60	*	*	*	*	*	.45	*	*	*	.02	.08	*	.30	.80	.12	.12
PUU KIME 120	A	4.49	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU LAU 102.1	A	4.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU LEHUA 73	A	3.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUU MALI 113	A	4.14	.48	.65	.85	.05	.08	.07	.02	.09	.09	.10	.03	T	.12	.41	.28	T	.10	.72	1.17	.51	.22	1.57	.27	.12	.04	.11	.25	.12	.12	.12		
PUU OJ 82	A	8.52	.48	.65	.85	.05	.08	.07	.02	.09	.09	.10	.03	T	.12	.41	.28	T	.10	.72	1.17	.51	.22	1.57	.27	.12	.04	.11	.25	.12	.12	.12	.12	
PUU WAHAA 94.1	A	2.79	.11	.11	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	
SAOILE POAO 1 84	A	35.89	.18	.65	*	.18	*	*	3.00	*	*	*	*	*	*	*	*	.15	.27	.95	.08	.69	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18
SOUTH POINT CORAL 3	A	4.49	.18	.65	*	1.35	*	*	3.00	*	*	*	*	*	*	*	*	.15	.27	.95	.08	.69	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18
UMIKOA 118	A	7.07	.54	.54	.54	.27	.10	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	
UPOLU POINT USCG 159.2	A	1.90	.35	T	*	.07	.10	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	
WAIKAEA SCO 88.2	A	30.08	1.67	.07	2.30	.45	.62	.10	.07	.13	.05	.10	.15	1.35	.56	.10	.65	.33	.43	.68	2.28	2.88	2.70	1.25	1.02	7.69	.1							

SUP

DAILY TEMPERATURES

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Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
[ISLAND OF KALAI]																																	
KANALOHULUHIJLL 1075	MAX MIN	67 54	68 54	69 54	69 55	66 57	65 54	70 53	71 56	73 52	74 46	60 52	69 53	70 50	73 47	72 49	71 55	70 53	64 49	64 57	66 55	67 58	69 49	71 54	64 52	67 46	70 56	72 49	62 54	68 54	69 53	68.3 52.7	
KILAUEA POINT 1133	MAX MIN	77 67	77 68	76 71	74 69	75 70	75 69	79 72	78 70	78 65	77 70	79 67	78 68	79 70	77 69	78 73	77 69	79 72	76 69	76 71	77 70	77 69	77 68	73 67	76 68	73 67	79 70	80 70	78 72	77 70	77 72	78 69	77.2 69.5
LIMUE WFO 172C.1	MAX MIN	80 70	80 71	80 71	81 71	80 73	79 73	80 74	80 73	81 70	82 72	80 71	80 70	80 71	81 72	81 73	80 73	82 72	81 70	80 70	78 70	81 72	79 72	79 68	77 67	80 72	82 68	81 74	80 74	80 74	81 73	80.1 71.7	
MAKAHUEA POINT 940.1	MAX MIN	78 65	79 66	80 66	78 72	80 67	74 73	77 68	80 65	76 69	80 72	80 67	80 70	80 64	81 69	81 68	81 67	77 68	81 66	79 65	79 68	80 64	81 65	79 65	81 64	79 67	75 67	81 66	82 70	84 67	80 71	79.5 67.8	
MAWA 1076	MAX MIN	81 63	81 63	81 64	83 64	85 66	82 66	83 66	82 67	83 66	84 65	84 61	84 61	86 60	84 62	84 62	84 63	81 63	85 64	84 62	84 63	78 62	83 64	82 65	78 65	82 65	83 64	85 64	84 65	85 65	84 65	82.9 63.8	
NIU RIDGE 1735	MAX MIN	78 59	77 59	78 60	79 61	78 61	79 62	79 62	80 63	78 62	79 60	80 63	80 62	79 63	78 61	79 63	80 61	80 61	81 61	79 60	79 60	75 58	76 60	78 60	79 60	80 59	80 60	79 60	80 60	78 60	78 60	78.7 60.7	
WAIAMI OVER 1054	MAX MIN	75 65	72 64	74 65	74 65	75 65	73 65	76 67	76 68	77 65	77 63	78 62	78 59	78 62	79 62	79 61	79 61	78 60	78 60	75 64	76 64	76 63	76 63	74 63	72 64	77 64	79 63	80 65	76 67	76 68	76 66	76.3 63.8	
[ISLAND OF OAHU]																																	
EWA PLANTATION 741	MAX MIN	80 64	80 64	78 64	82 66	82 68	81 67	81 70	83 70	81 63	82 62	82 63	81 64	81 64	83 64	83 62	81 69	83 64	83 62	81 65	79 66	79 64	80 66	81 66	78 66	79 66	85 66	81 65	82 68	80 67	82 68	81.1 65.4	
HONOLULU WFO 763	MAX MIN	81 69	78 70	83 70	82 71	80 70	81 70	83 73	81 70	81 70	81 70	82 69	82 69	82 69	82 70	82 71	81 70	83 70	82 68	81 65	78 67	81 69	82 68	79 68	81 68	82 69	83 72	83 71	81 70	81 71	81.5 69.6		
HONOLULU SUBSTA 704	MAX MIN	77 69	76 71	79 70	78 72	77 70	77 72	80 74	78 75	79 71	77 71	77 70	78 71	79 70	80 71	80 71	80 71	80 71	78 67	79 69	79 71	77 69	77 68	77 68	78 68	79 72	79 71	79 71	79 71	79 71	78.3 70.6		
KAHUKU 917	MAX MIN	78 67	78 68		78 68	77 66	78 66	78 68	79 71		78 69	79 68	79 69	79 68	79 69	79 69	79 69	79 69	79 69	78 64	78 66	79 68	79 71	78 70	79 71	80 66	82 72	80 71	80 72	78.9 68.7			
KANEONE MAUKA 781	MAX MIN	78 65	78 67	76 69	79 70	78 65	75 65	76 65	80 65	77 67	79 67	80 68	79 69	79 68	78 68	79 68	79 68	76 68	80 67	77 66	77 66	76 66	78 66	76 67	74 67	76 66	79 66	83 68	80 70	78 69	79 69	78.1 67.5	
LUALUALEI 804	MAX MIN	81 69	81 70	79 66	84 68	84 68	81 71	82 72	84 73	81 70	84 68	83 68	84 67	83 68	82 71	82 69	83 70	80 67	82 70	82 67	80 68	78 69	80 68	79 68	82 68	80 68	85 66	82 66	82 70	81 72	82 72	81.8 68.7	
MAKAPOU POINT 724	MAX MIN	74 65	74 69	74 68	79 68	74 67	74 67	75 69	76 67	75 66	76 69	76 68	76 69	74 66	76 66	80 66	75 68	74 65	76 68	75 65	74 63	75 68	76 63	76 63	73 68	77 66	78 66	80 68	81 68	75 68	76 67	75.8 67.2	
UPAFLA 870	MAX MIN	75 63	74 63	74 63	81 63	79 66	74 64	73 65	80 66	78 66	78 63	78 63	78 62	77 63	78 65	79 65	75 66	78 64	78 61	78 63	73 63	70 63	75 63	75 62	73 62	72 64	83 64	84 64	84 64	78 65	77 65	77.0 63.7	
PRI WAIANA 820.2	MAX MIN	79 64	78 62	76 62	84 64	83 62	78 66	77 66	81 69	79 64	80 64	81 61	79 63	80 65	82 64	81 65	77 64	82 62	81 61	76 64	76 63	79 63	78 62	76 64	73 64	81 64	82 63	82 63	82 65	79 65	81 66	79.4 63.7	
WAILUA 847	MAX MIN	80 62	80 61	80 62	81 66	82 66	80 66	78 66	83 68	81 67	82 65	80 61	82 61	81 60	82 61	84 61	78 66	84 62	81 62	79 64	77 62	81 64	80 66	77 64	80 66	82 66	84 63	85 63	83 67	82 64	80.9 63.9		
WAIKIKI 717.2	MAX MIN	82 69	82 70	81 68	84 72	83 72	83 71	82 72	84 73	83 71	83 63	83 63	81 68	82 69	83 70	84 70	84 65	85 70	83 67	82 70	82 68	82 69	83 71	83 68	80 71	82 69	82 71	84 71	82 70	82 71	83 71	82.7 69.8	
WAIMANALO EXP FARM	MAX MIN	79 67	79 69	77 67	80 71	79 71	78 71	79 71	80 72	79 70	80 70	81 69	81 69	80 70	81 69	80 70	81 69	79 67	81 67	78 67	78 66	79 67	78 69	79 70	78 66	80 67	81 65	82 68	80 70	81 72	79.5 68.9		
[ISLAND OF MOLOKAI]																																	
MOLOKAI AP 524	MAX MIN	79 69	77 65	79 67	79 70	79 69	79 69	79 69	81 69	80 69	80 68	76 69	79 67	79 67	80 67	80 68	80 69	80 71	79 67	76 63	78 68	78 67	80 67	79 67	80 67	80 69	83 65	80 65	78 66	80 69	79.2 67.7		
[ISLAND OF LANAI]																																	
LANAI CITY 672	MAX MIN	70 62	71 60	72 62	79 64	73 64	72 63	71 64	76 64	77 65	73 63	73 63	70 63	74 64	74 60	78 62	77 61	75 65	73 61	74 59	73 64	74 64	74 64	73 62	74 63	76 63	76 63	80 64	76 64	76 63	75 63	74.3 62.8	
[ISLAND OF MAUI]																																	
HALEAKALA RS 338	MAX MIN	57 45	54 41	59 43	60 44	60 47	57 45	54 45	66 54	68 47	66 49	66 49	63 37	59 39	64 48	69 44	66 40	56 42	60 39	58 43	54 44	53 43	57 41	56 41	56 45	55 48	53 43	62 44	64 45	63 45	62 45	59.9 44.1	
HALEAKALA SUMMIT 338.4	MAX MIN	41 34	45 34		51 37	41 33	45 33	49 38			54 38	56 34	56 39	56 41	56 36		48 32	44 36	44 33	45 33		48 37	52 40	54 38	56 40	57 44	49.5 36.9						
HANA AIRPORT 355	MAX MIN	77 67	80 66	80 67	79 69	79 68	76 69	82 68	82 72	80 72	81 65	80 64	81 65	80 69	82 68	82 68	81 66	80 66	78 64	76 67	79 67	79 65	78 67	78 68	82 69	82 68	79 68	78 69	81 68	79 68	79.5 67.2		
KAAHAPALI AIRPORT	MAX MIN	75 65	80 63	79 66	81 66	81 63	80 63	80 60	82 68	83 68	82 62	82 65	80 64	81 69	82 62	82 63	81 67	82 65	81 62	80 63	79 65	78 69	81 64	82 65	82 65	84 59	81 59	82 65	84 67	81 68	82 68	80.9 64.4	
KAHULUI WFO 398	MAX MIN	81 69	84 62	85 63	84 66	82 69	80 71	85 67	85 65	84 68	83 67	80 67	83 68	84 68	85																		

Continued

DAILY TEMPERATURES

HAWAII
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Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
LAHAINA 361	MAX MIN	83 68	83 64	82 65	85 67	85 68	81 70	81 68	86 65	83 65	84 63	83 62	85 65	84 64	84 64	84 65	83 67	86 66	85 65	84 66	83 67	79 64	84 65	83 66	82 66	83 68	85 67	85 67	84 70	83 67	83 68	83.5 66.1	
WAILUKU 396	MAX MIN	75 66	75 67			81 65	78 71	76 69	82 70				80 67	78 69	78 68	80 68	80 67				80 67	75 68	73 67	76 67	78 68		80 65	82 69	80 69	80 69	79 68	78.4 67.8	
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX MIN	78 64	78 65	79 66	82 65	78 66	76 68	76 66	78 67	78 66	78 63	78 64	77 64	79 65	78 63	78 66	78 67	79 65	79 62	79 64	77 62	76 63	77 63	77 63	75 63	80 65	82 64	80 66	78 64	79 62	78 66	78.2 64.6	
HAWAII VOLCNS NP HO 54	MAX MIN	68 53	61 52	70 54	70 55	64 55	64 55	65 55	66 53	65 55	66 52	64 51	68 53	66 49	65 51	69 52	69 52	64 52	68 52	69 51	67 52	64 52	65 52	63 52	60 53	61 52	70 55	67 54	63 53	61 54	62 52	65.5 52.9	
HILD WSD 87	MAX MIN	71 62	80 62	82 64	76 63	78 65	78 65	80 64	81 63	82 64	78 64	79 64	78 64	78 62	76 63	78 64	79 64	80 63	80 62	79 65	72 63	78 63	76 63	71 62	81 65	83 64	82 65	78 65	80 65	76 65	75 64	78.1 63.7	
KAINALIU 73.2	MAX MIN	75 61	74 62	77 61	77 61	74 64	73 65	74 61	75 61	72 64	73 61	78 61	75 61	77 63	74 59	78 60	77 62	71 60	71 61	75 60	76 60	76 59	73 60	74 61	72 62	78 61	76 64	72 61	74 63	76 63	75.0 61.5		
KAMUELA 192.2	MAX MIN	68 54	70 55	71 55	80 55	70 58	70 58	68 58	75 58	76 60	67 57	68 58	68 57	69 58	70 55	71 54	72 54	70 56	72 54	74 56	70 54	70 54	69 54	71 55	72 54	74 54	78 57	78 55	70 55	71 54	71 55	71.4 56.0	
KEAAU 92	MAX MIN	78 62	70 64	78 64	82 64	75 67	77 66	80 66	80 66	85 65	75 64	77 64	78 64	76 65	78 64	77 66	78 65	80 63	80 63	79 64	68 64	70 65	75 64	69 65	77 65	78 65	76 65	74 65	75 66	74 65	74 65	76.5 64.7	
KEALAKEKUA 26.2	MAX MIN	72 62	73 62	77 61	78 62	75 64	73 65	74 61	76 62	79 66	75 62	73 62	76 62	78 64	74 60	79 62	77 62	73 61	77 61	78 60	75 59	78 61	75 62	72 62	73 61	77 61	76 64	74 62	74 64	75 64	75.4 62.0		
KOHALA MISSION 175.1	MAX MIN	77 65	76 64	77 64	83 66	76 67	75 67	75 68	77 66	78 66	75 65	76 66	77 64	77 66	78 66	76 66	77 66	78 66	78 65	77 63	75 64	76 64	75 65	73 65	72 65	79 66	79 68	75 68	78 66	78 67	76.7 65.5		
KONA (KAILUA) 68.3	MAX MIN	78 68	80 69		85 69	80 72	82 70	85 68	82 69				82 68	82 69	82 71	84 70				83 67	83 68	82 68	82 69			83 67	80 72	79 71	83 70	83 69	82.0 68.8		
KULANI CAMP 79	MAX MIN	62 45	56 45	54 50	67 49	61 50	60 52	63 43	66 48	65 45	65 47	60 44	63 50	63 48	57 44	60 45	65 43	59 45	62 47	63 46	60 46	60 46	61 48	57 48	58 50	63 53	62 48	55 49	60 48	60 49	69 50	61.2 47.3	
MAUNA LOA SLOPE OBS	MAX MIN	45 34	44 33	45 35	48 35	45 34	42 32	52 36	56 37	51 34	52 32	52 32	52 32	51 34	49 32	29	43 30	43 30	46 28	42 32	43 30	42 30	42 31	42 33	45 35	46 35	48 34	51 34	54 36	50 39	47.3 33.2		
MOUNTAIN VIEW 91	MAX MIN	75 57	65 59	78 59	78 59	78 62	73 62	74 60	76 60	74 60	74 60	74 60	74 60	73 60	74 61	70 61	74 62	78 58	78 59	76 59	68 59	70 60	71 60	77 61	77 61	77 62	68 61	68 62	68 61	73.7 60.0			
NAALEHU 14	MAX MIN	77 64	77 63	77 63	78 64	78 64	75 69	77 68	77 66	77 66	77 66	77 66	76 66	76 66	77 67	78 68	77 69	78 69	77 64	76 65	78 64	76 65	75 64	75 64	78 64	76 64	76 67	72 65	72 66	72 66	76.3 65.1		
OOKALA 223	MAX MIN	73 63	79 63	78 63	80 66	77 65	76 65	79 65	77 66	80 65	81 64	79 64	79 63	80 62	78 64	79 65	79 64	80 64	79 65	78 64	79 63	78 63	76 63	75 64	78 63	79 65	78 64	79 64	77 64	79 64	78.0 64.0		
OPIHIHALE 2 24.1	MAX MIN	73 59	74 60	71 61	77 59	78 60	77 61	77 62	77 64	75 60	72 59	76 60	76 61	75 60	76 61	76 58	79 58	79 57	74 58	76 57	72 58	77 59	75 60	71 61	76 60	80 60	74 61	76 62	73 61	77 64	75.4 60.2		
PAHALA 21	MAX MIN	78 61	69 60			78 63	77 67		84 66				79 59	77 61	76 61	78 61	80 61				80 60	77 61	76 61	75 61	75 63		80 63	78 64	71 64	76 64	72 64	77.0 62.2	
PUAKO 95.1	MAX MIN	81 67	84 67	84 68	84 69	81 66	84 69	80 69	84 68	84 69	85 66	84 69	84 69	85 67	84 68	84 69	84 72	86 69	85 68	85 68	87 69	85 69	86 69	82 67	78 67	81 66	84 65	85 69	83 69	85 72	85 72	85.8 68.2	
UPOLU POINT USCG 159.2	MAX MIN	77 67	78 69	79 70	85 71	80 69	77 68	77 69	80 68	79 68	80 69	78 68	78 67	75 65	79 69	73 69	79 68	81 67	81 68	79 68	72 68	72 67	77 66	77 66	80 67	80 67	82 70	77 68	80 68	81 69	78.6 68.3		
WAIKOA KOHALA	MAX MIN	68 55	71 54	74 54	77 58	72 58	72 54	72 59	73 58	70 58	69 56	70 56	68 56	70 56	71 50	71 58	69 57	71 55	71 49	74 57	70 59	70 58	70 52		70 55	68 54	77 52	76 59	71 52	73 55	71 56	71.3 55.5	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *	ISLAND OF KAUAI																																
LIHUE WSD 1020.1	EVAP	.18	.23	.17	-	-	.10	.13	.22	.18	.24	.33	.28	.30	.31	.33	.36	.26	.18	.34	.28	.34	.31	.32	.36	.20	.20	*	.61	.20	.32	7.918	
	WIND	174	224	147	139	164	244	187	173	199	171	163	128	143	83	205	200	202	117	188	235	268	166	200	140	123	65	95	162	176	146	5186	
	MAX	83	82	82	78	78	78	73	81	81	81	81	83	83	85	84	82	75	81	80	80	75	81	81	77	77	80	80	89	81	82	81.1	
	MIN	61	63	63	63	63	63	64	64	63	61	60	60	61	64	61	62	62	62	62	62	61	62	63	62	61	62	63	65	65	64	62.4	
* * *	ISLAND OF OAHU																																
HONOLULU OBSERV 702.2	EVAP	.24	.15	.15	.30	.15	.03	.46	.21	.30	.12	.45	.15	.39	.30	.30	.30	.18	.30	.29	.18	.11	.24	.17	.04	.13	.21	.25	.20	.23	.22	6.75	
	WIND	22	34	18	16	40	44	36	42	30	29	30	36	34	35	34	41	28	26	37	25	28	28	30	14	22	24	24	35	26	27	895	
	MAX	87	85	79	95	84	80	82	89	88	91	90	89	89	88	89	88	83	91	88	84	79	89	86	78	83	92	95	88	87	88	86.8	
	MIN	65	64	65	67	65	65	65	67	65	64	63	64	63	63	63	64	65	63	64	64	64	63	65	65	66	66	68	68	67	66	67	65.0

See Reference Notes Following Station Index

HAWAII
1954

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STATION INDEX

Hawaii
APRIL 1971

APRIL 1971																									
STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL (SEE P. 17)										TEMP	PRECIP	EVAP	SPECIAL (SEE P. 17)	
ISLAND OF HAWAII																									
MIDDLE HULUADA 08.1	A 0298	04	N KONA	4	19 37	155 58	475	84				XONA EXPERIMENT STA													
MIDDLE PEN 147.1	A 0470	01	N KOHALA	1	20 08	155 50	1360	VAR				KAHUA RANCH													
MOULU 10	A 0407	03	KAU	1	19 11	155 30	800	74				HAWAIIAN RANCH CO													
MOUNTAIN VIEW 91	A 0552	02	PUNA	2	19 33	155 07	1530	84	84			PUNA SUGAR CO													
NALEHU 14	A 0588	03	KAU	1	19 04	155 35	673	84	84			HUTCHINSON SUGAR CO													
NAPOOPOO 28	A 0607	04	S KONA	4	19 19	155 35	395	74				XONA EXPERIMENT STA													
NAULU FOREST 38.6	A 0731	02	PUNA	2	19 19	155 08	1400	VAR				HAWAII VOLCANOES NAT PN													
NIULI 179	A 0800	01	N KOHALA	1	20 14	155 45	155	84				KOHALA SUGAR CO													
OPHALA 223	A 7131	02	N HILO	2	19 01	155 17	430	74				LAURENCE SUGAR CO													
OPIMAHIA 2 24.1	A 7166	04	S KONA	4	19 16	155 53	1270	74	74			MISS C LEONARD													
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 44	155 00	445	VAR				BOARD OF WATER SUPPLY													
PAALUHA 217	A 7204	01	HAWAII	1	20 05	155 26	415	74				PARAHU SUGAR CO													
PAALUHA 221	A 7312	01	HAWAII	1	20 03	155 22	800	74				HAWAIIAN HILL CO													
PAHALA 21	A 7421	03	KAU	1	19 12	155 29	870	84	84			HAWAIIAN AGR CO													
PANDA 05	A 7457	02	PUNA	2	19 30	155 57	670	84				PUNA SUGAR COMPANY													
PAHO 37	A 7643	03	KAU	1	19 22	155 28	9000	84				HAWAIIAN RANCH CO, INC.													
PAPAIAKU 144.1	A 7711	02	S HILO	2	19 47	155 08	200	74				MAUNA KEA SUGAR CO.													
PAPAIAKU MAUNA 140.1	A 7721	02	S HILO	2	19 47	155 08	1270	74				MAUNA KEA SUGAR CO.													
PEPEKEU MAKA 144	A 8000	02	S HILO	2	19 51	155 05	100	74				PEPEKEU SUGAR CO.													
PIMOHUA 89	A 8051	02	S HILO	2	19 44	155 10	1730	84				STATE DIV OF FORESTRY													
PIMOHUA 107	A 8063	02	HAWAII	1	19 45	155 32	651	VAR				STATE DIVISION OF PARKS													
PJAKU 95.1	A 8186	03	KOHALA	1	19 59	155 30	5	84	84			ERWIN H. RAPP													
PJU KHE 120	A 8393	01	HAWAII	1	19 54	155 24	7750	84				KUAIKAI RANCH CO													
PJU LAU 102.1	A 8452	05	HAWAII	1	19 50	155 36	7440	84				STATE DIV OF FISH-GAME													
PJU LEWIA 73	A 8460	04	S KONA	4	19 14	155 49	6880	84				GREENWELL RANCH													
PJU MALL 113	A 8515	01	HAWAII	1	19 55	155 26	6960	84				KUAIKAI RANCH CO													
PJUKOHU 167	A 8548	08	N KOHALA	1	20 12	155 50	1800	74				CLOSED 3/31/71													
PJU OO 81	A 8550	02	S HILO	2	19 44	155 23	6340	84				DOO WINTERS													
PJU WAAWA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520	74				DILLINGHAM RANCH INC													
SAOULE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340	84				BOARD OF WTR SUPPLY													
SOUTH POINT CORRAL 3	A 8079	03	KAU	1	18 57	155 41	300					UNION 118													
UPULU POINT USCG 159.2	0830	01	N KOHALA	1	19 15	155 23	3420					UPULU POINT USCG 159.2													
WAIKAE SCD 88.2	V029	02	S HILO	2	19 40	155 08	1050	84	84			WAIKAE SCD 88.2													
WAIKANDONGUA 178.0	9308	01	N KOHALA	1	20 08	155 47	3900	74				WAIKANDONGUA 178.0													
WAIPIKA KONA	9554	05	S KONA	5	19 20	155 40	2665	84	84			WAIPIKA KONA													
CLOSED STATIONS												CLOSED STATIONS													
ISLAND OF HAWAII												ISLAND OF HAWAII													
KOHALA 179.1	A 0470	01	N KOHALA	1	20 14	155 47	309	84				KOHALA 179.1													
PUUDUKOHU 167	A 8548	08	N KOHALA	1	20 12	155 50	1800	84	74			PUUDUKOHU 167													
CLOSED STATIONS												CLOSED STATIONS													
NEW STATIONS												NEW STATIONS													
ISLAND OF DAHU												ISLAND OF DAHU													
UPPER WAILANA 874.3	0836	03	DAHU	3	21 31	158 01	1115	84				UPPER WAILANA 874.3													
ISLAND OF PONO												ISLAND OF PONO													
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	1	19 41	155 10	1520	VAR				HILO COUNTRY CLUB 86.6													
MAKANAUA 103	5701	02	HAWAII	1	19 59	155 33	3620	84				MAKANAUA 103													
CLOSED STATIONS												CLOSED STATIONS													
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1 DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-MONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA Hawaii."

DICTIONAL UNITS Unless otherwise indicated, dimensional units entered in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind speed in miles per hour. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME Data in the "Monthly Extremes", "Daily Precipitation", "Daily Temperature", and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELETED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, "Snowfall and Snow on Ground" table, and the Station Index.

No record in the "Climatological Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates.

-- Highest observed one minute wind speed. This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

R Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amount from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

W1 Gage read weekly or irregularly only.

W2 Gage read weekly and last day of month.

Thermometers are generally exposed in a shelter located a few feet above and covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either closing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of stations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

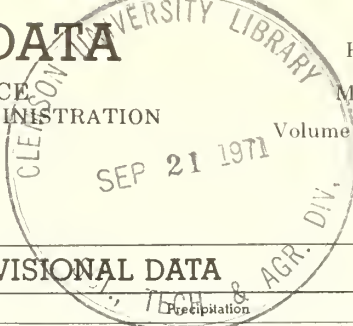
CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

MAY 1971

Volume 67 No. 5



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature										Precipitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow/Sleet			No. of Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
											Max. Min.								Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	10 or More	50 or More	100 or More																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
MAY 1971

Station		Temperature											Precipitation													
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days				
											Max.	Min.	Total	Departure From Normal					Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEALAKEKUA 26.2		75.8	61.6	68.7		81 14	59 12+			0	0	0	0	2.37		.55	3	.0	0		7	1	0			
KOHA (KAILUA) 68.3						88 14	64 10			0	0	0	0	1.47		.69	21	.0	0				0			
KJKUIMAELE HIC 199														.95	- 5.76	.30	7	.0	0		2	0	0			
KJLANI CAMP 79		61.9	46.0	54.0		82 13	40 13			0	0	0	0	6.14		1.00	20	.0	0		17	3	1			
PAHALA 21							57 11+			0	0	0	0	3.36	1.04			.0	0							
PAHALA 21						80 4	57 11+			0	0	0	0	3.36	1.04			.0	0							
PCHAKULOA 107														.46		.25	19	.0	0		3	0	0			
PJAKO 95.1		84.7	68.1	76.4		87 28+	65 17+			0	0	0	0	1.89	- .84	.66	8+	.0	0		4	2	0			
PJU WAAWAA 94.1														.33	- 4.73	.07	7	.0	0		0	0	0			
UMIKOA 118														10.39		1.78	8	.0	0		21	9	2			
WAIKEA SCO 88.2														.17		.10	25	.0	0		1	0	0			
WAIHEA KOHALA		73.0M	52.2M	62.6M		78 17	44 9			0	0	0	0					.0								
ISLAND				67.1										3.40				.0								

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 91° ON THE 25+ AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 27° ON THE 9TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 22.17 AT MOUNT WAIKALEALE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 13 STATIONS

GREATEST ONE-DAY PRECIPITATION: 4.74 ON THE 19TH AT KALIHI RES SITE 777, OAHU

DAILY PRECIPITATION

HAWAII
MAY 1971

Station		Total	Day of Month																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																			
ISLAND OF KAUAI																																			
ANAHOLA 1114	A	1.41	*	*	.80		.05	.03	.02	*	*		.10		.01	*	*	.02	.01		.10	*	*	*	.08	.03			*	*	*	.20	*		
BRYCESWOOD STA 985	A	3.05	*	*	.27		.02	.06	.58		.04	*	.16		.03	*	*	.01	.02		.02	.48	.01	*	.46	.21	.05	.01	.26	*	*	.36	*		
EAST LAMAI 934	A	2.97	*	*	.42		.02	.12	.40		.19	*	.09	T	.01	*	*	.01	.02		.05	.40	*	*	.37	.17	.15	.02	.08	*	*	.43	*		
ELEELE 927	A	1.37	*	*	.13			.04	.20	T	*	*	.27								.08		*	*	.32	.14	.03	.05	*	*	*	.11	*		
HALAULA 1110	A	2.39	*	*	1.27		.15	.05	.21	*	*	*	.28								.10		*	*	.15	.01			*	*	*	.17	*		
HALEMANAHU 1006	A	3.30	*	*	.46		.15	.08	.19	*	.04	*	.19	.06	*	*	*	.09	.03		.03	.15	*	*	*	.41	.09	.06	.05	.31	*	*	.91	*	
HUKIPD 945	A	.41	*	*	.13								.23										*	*	*					*	*	*	.03	*	
ILILIULU INTAKE 1050	A	10.34	*	*	2.92		.14	.39	.38		.35	*	.49	.10	.13		.83				.37	*	*	*	.85	.21	.45	.40	.39	*	*	1.90	*		
INTAKE WAINIHA PC 1086	A	1.98	*	*	.61				.75												*	*	*	*	.62	*	*	*	*	*	*	*	*		
KANALOHUULU 1075	A	1.01	.45	.12	.03		.04	.01	.04		.01		.05								.05		*	*	.02	.64	.02			.02	.07	.04	*		
KANEHA RESERVOIR 1092	A	4.41	*	*	1.40		.26	.30	.25	*	*	*	.35				*	.10	.03		.10	*	*	*	.21	.07	.11		.15	*	*	1.08	*		
KAPAA STARLES 1104	A	3.07	*	*	.170		.03	.03	.04	*	*	*	.62		.02		*	.02			*	*	*	*	.06	.03			.05	*	*	.50	*		
KEALIA 1112	A	.98	*	*	.12		.08	.03	.03	*	*	*	.10		.02		*	.02			.13	*	*	*	.03	.01	.06		.05	*	*	.32	*		
KEKAMA 944	A	.13	*	*	.11												*	.05	.01		.05	.10	*	*	.35	.02		.01	*	*	1.32	*			
KILAUEA 1134	A	2.94	*	*	.52		.03	.07	.18		.14	*	*	.08	.01		*	.05	.01		.05	.10	*	*	*										
KILAUEA FIELD 17 1135	A	3.27	*	*	.69		.07	.10	.14		.05	*	*	.34	.01	.01		*			.09	.15	.01	*	.16	.10	.01	.01	.10	*	*	1.15	*		
KILAUEA POINT 1133	A	1.85	.06	.10	.01		.04	.08	.27		.12	.03		.08			*	.05	.03		.09	.15	.08	.05	.05		.10	.01	.01	.10	.28	.49	*		
KILO 1033	A	.30	.10	.12													*						*	*									*		
KOLDA 930	A	2.75	*	*	.47		.17	.34	.03		.18	*	.10		*	*	.02				.03	.19	*	*	.29	.10	.19	.06	.12	*	*	.68	*		
KOLDA MAUKA 994	A	5.15	*	*	.51		.05	.16	.38		.18	*	.08	.55	.03		.02	*			.06	.29	*	*	.74	.21	.07	.06	.51	*	*	.96	*		
KOLOKO RES 1137	A	2.83	*	*	.34		.06	.10	.18		.35	*	.20	.01		.05	*	.04	.01		.05	.07	.01	*	.04	.07	.01	.03	.17	*	*	.84	*		
KUKUIULA 935	A	.95	*	*	.21		.10	.14	.05	*	*	*	.01				*				.02		*	*	.07	.06	.05	T	.05	*	*	.22	*		
LIHUE VARIETY STA	A	2.85	*	*	.99		.04	.02	.23		.04	*	.08				*				.01	.24	*	*	.02	.05	.19	.07	.05	*	*	.50	*		
LIHUE 1020	A	1.62	*	*	.34		.03	.01	.04		.12	*	.04	.08			*				.02	.03	*	*	.15	.07	.01	.01	.15	*	*	.32	*		
LIHUE WSD 1020-1	//R	1.03	.49	T	.03	T	.01	.01	.14		.07	.02		T			*				.03	T		.01	.01	T	T	.01	.02	.13	.05	T	*		
MAKAHUEA POINT 940-1	A	1.16	.17	.05	.02		.03	.06	.04		.02		.37				*				.03	.04			.06	.03	.18	.01	.26	.03	.13	*	*		
MAKAHUEI 965	A	.61					.03										*				.03				.07					.11	*	*			
MANA 1026	A	.33	.29	.04													*															*	*		
MOHIMI UPR CROSS 1083	A	2.08	.34				.09	.04	.09		.17	.26		*			*		.08						.16	.32	.08		.08		.24	.16	*		
MOLOAA 1145	A	1.57	*	*	.57		.09	.04		.24				*			*												.11	*	*	.50	*		
MOUNT WAIATALE 1047	A	22.17	1.02	.04	.24		.83	.98	.98	1.34	.16	.64	.28		.12	.67	.04	.51	.67	.35	1.89	1.89	.20	.16	.94	1.77	.35	.47	.75	.16	1.65	1.69	1.38	*	
NIU RIDGE 1035	A	10.13	.47										.10																				.30	*	
N WAILUA DITCH 1051	A	14.54	*	*	4.16		.30	.40	.66	.56	*	*	1.36	.26			.26	*		.56	.20	.16	1.16	.36	*	.90	.36	.56	.20	.46	*	*	1.00	*	
PH WAINIHA 1115	A	3.69	.20	.05	.03		.01	.06	.11	.07	.03		.13				.01		.02		.16	.03		.10	.22	.07	.10	.05	.02	.10	.22	.96	1.10	*	
PRINCEVILLE RANCH 1117	A	*	*	.60			.13	.21	.16	*	*		.03				*				.05	.04	.01	*	.22	.03	.11		.08	*	*	*	*		
PUEHU RIDGE 1040	A	1.49	.88	.22									.39								.01	.03	.04	*	.23	.12	.02	.04	.14	*	*	.50	*		
PUHI 1013	A	2.60	*	*	.34		.02	.04	.19		.03	*	.38	.27					.01		.03	.04	*	*	.23	.12	.02	.04	.14	*	*	.50	*		
RESERVOIR 6 1004	A	3.95	*	*	.49		.09	.05	.39	.06	*	*	.09	.31	.03		*		.04	.03	.05	.22	*	*	.62	.20	.06	.04	.32	*	*	.86	*		
WAIATAWA 930	A	1.29	*	*	.24		.01	.08	.15	T			.36	T			*	T	*		.05	.22	*	*	.10	.10	.03	.01	.07	*	*	.06	*		
WAIATAWA MOUNTAIN 990	A	6.75	*	*										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.75	*		
WAIHI LOWER 1054	A	6.01	.32	.56	.22		.02	.12	.58	.24	.03	.11	.03	.06		.10	.18		.09	.04	.04	.37	.07	.19	.27	.21	.38	.02	.14	.26	.95	.44	*		
WAIHI UPPER 1052	A	10.13	1.40	1.65	.01		.21	.25	.95	.40	.30	.14	.03	.12	.01		.01	.36		.08	.12	.23	.50	.12	.17	.23	.30	.15	.40	.12	.40	.53	.57	.41	*
WAIKAWA 943	A	1.05	*	*	.14								.12				*				.13	.09	*	*	.05								1.41	*	
WAILUA KAI 1065	A	3.38	*	*	.14		.03						.04				*				.09	*	*	*	.05								.08	*	
WAIKAWA 947	A	.29											.04				*																		
WEST LAMAI 931	A	1.19	*	*	.20		.02	.13	.16		.01	*	T		*	*	.03			.02	.08	.01	*	*	.10	.12	.04		.09	*	*	.18	*		
* * *																																			
ISLAND OF OAHU																																			
BERETANIA PUMPING STA	A	1.48	*	*	T	T	.01	.10	.07				.01						.01		.03	.90	.06	*	.13	.05	T	.03	.02	.01	*	.05	*		
CAMP 84 807	A	1.39	*	*	.13		.08	.08	.41				.56	.48							.05	*	*		.09	*									
CHURCH COLLEGE LAIE	A	1.43	T	*			.08	.08	.41				.56	.48			T	T		T	.06	*	*		.37	.09	*	.04	.08	.01	.09	.14	*		
COCONUT ISLAND 840-1	A	.56	.02	.04			.01	.06	.01	*	.02		.14																				.02	.20	*
EWA PLANTATION 741	A	.68		.07									.14								.25														
HELEMANO INTAKE 881	A	5.11	*	*	*	*	*	.34	*	*	*	1.28	*	*	*	*	*	*	*	*	*	2.37	*	*	.35	*	*	.41	*	*	*	.26	*		
HOKULU 725-2	A	1.15	*	.24								.27	*	*	*	*	*	.02	*	*	*	*	*	*	.62	*	*	*	*	*	*	*	*		
HONOLULU OBSERV 702-2	A	.65	*	*	.12																														

DAILY PRECIPITATION

HAWAII
MAY 1971

inward

Station	Total	Day of Month																																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
ALAPU 434	A	.25			.00																				.01	.04			.15								
ALAPU 434	A	2.05		.15		.20	.10									.04		.02	.02		.46		.42	.40	.05	.13	.06	.04	.15	.14			.08				
ALAPU 434	A	.87				.01	.01				.33	.02													.03	.01											
ALAPU 434	A	.11			.02																					.02											
ALAPU 434	A	1.40					.53																														
ISLAND OF LANAI																																					
LANAI 090	A	.39					.01							.16														.02					.20				
LANAI 090	A	.99				.09					.48									.18					.24												
LANAI 090	A	2.51		.02		.72	.01			.83	.06									.55	.03				.02				T			.07					
LANAI 090	A	1.67																															1.65				
LANAI 090	A	.01				T																											.01				
LANAI 090	A	.80					.22							.46								.20															
LANAI 090	A	2.64												2.50																			.14				
ISLAND OF MAUI																																					
MAUI 752	A	.00																							.18	.42	.08	.12	.17	.05	.16	.06					
MAUI 752	A	2.10		.02		.04	.19	.24	.32	.03					.01										.18	.42	.08	.12	.17	.05	.16	.06					
MAUI 752	A	.31					.13																		.18	.42	.08	.12	.17	.05	.16	.06					
MAUI 752	A	.85		T			.09	.25	.01	.01	.11	.06								.04	.03	.01	T	.10	.10	.02	.02										
MAUI 752	A	.63					.03	.15			.25	.06								.02					.14												
MAUI 752	A	.97		.01		.01	.04	.05	.14															.02	.21	.10	.02	.06	.06	.06	.06	.05					
MAUI 752	A	2.43		.05		.17	.12	.11	.02						.02	.01			.03	.06	.03	.47	.21	.08	.20	.07	.15	.13	.04				.05				
MAUI 752	A	2.36																		.20	.05			.85	.12	.22	.06	.13	.13	.13	.13	.04					
MAUI 752	A	3.23		.15	.06	.06	.05	.10	.04	.39	T								.02	T	.21	T	.07	.04	.02	.35	.08	.19	.01	.05	.02	.16	.16	.07			
MAUI 752	A	4.16		.05	.08	.18	.06	.46	.39	.32	.13							.09	.04	.03				.27	.48	.12	.29	.05	.22	.12	.30	.18					
MAUI 752	A	.75						.45	.04			.02												.02		.21	.01										
MAUI 752	A	5.72																															5.72				
MAUI 752	A	1.97			.02	.04	.03	.04	.12			.31														.45	.10	.09	.15				.62				
MAUI 752	A	3.00																															3.00				
MAUI 752	A	.12	.01	.01		.02		.01																	.01	.02	T		T		.04						
MAUI 752	A	2.85																															2.85				
MAUI 752	R	.10	.01			.01	T	T																													
MAUI 752	A	4.69																															4.69				
MAUI 752	A	5.55		.07	.01	.48	.38	.42	.33	.01																											
MAUI 752	A	2.03	.47						.82																.14	.01	.01	.09	.60	1.02	.36	.16	.31	.09	.29	.45	
MAUI 752	A	.23					.19	.02																													
MAUI 752	A	11.20																																11.20			
MAUI 752	A	.00																																			
MAUI 752	A	4.11		.06	.18	.16	.48	.44		.65										.06	.05	.20	.19		.30	.55	.21	.14	.18	.05	.21						
MAUI 752	A	.44					.08																														
MAUI 752	A	.62																																			
MAUI 752	A	.00																																			
MAUI 752	A	2.00																							</												

DAILY PRECIPITATION

Continued

HAWAII
MAY 1971

		MAY 1971																															
Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KIPA 89.2	A	12.93	.27	.35	.73	.19	.07	.05	2.39	.60	.04				1.34	*		.01	.26	.15	1.09	.66	.66	.01	1.63	.45	.08	.08	.78	.13	.30	.01	
KOMALA MAULILI 176	A	2.06					.28	.32	.07	*					*			.07		.08	.12	.09	*	*	.42	.02	.02		.32	*	*	.19	
KOMALA MISSION 175.1	A	1.80	.02	*	*	.01	.28	.07	.17	T					T			.04	T	.07	.17	.10	*	.05	.27	.02	.02	T	.22	T	.01	.27	
KOIAWE LOWER 196	A	.41	*	*	*	*	*	*	.18	*	*	*	*	*	.05	*	*	*	*	*	*	.03	.69										
KONA (KAILUA) 68.3	A	1.47	*	*	.07		.01				.52				*						.11					T	*	.15	*	*	*	*	
KONA VILLAGE 93.8		.10	.06										.02								.02												
KUKAIKU 222		1.63			.21	T	.03	T	.38	.15	T										.06	.17			.08	.21	.05		.18	.09	T	*	
KUKUIMAELE HIC 199		.95	*	*	.09	.08		.02	.30	.08															.04	.04			.06	.09	.13	.02	
KUKUIMAELE MILL 206	A	.84	*	*	.11	.06	.01	.35	*		.06													*	.02	.04			.06	*	*	.13	
KULANI CAMP 79	A	6.14	.12	.10	.30		.07	.35	.45	.18	.49	.21	.02	.03	.15	.01			.23	.10	1.00	.86	.16	.01	.02	.04	.21	.03	.06	.12	.04	.02	
KULANI MAUKA 76	A	1.08					.07	.12	.12	.14	.15																						
KULANI SCHOOL SITE 78	A	6.27	.77	*	*	*			.16	.04	.15	.46	.18	.10				.55	.28	.32	*		.05	.05	1.74	.07	.06				.25	*	
LANIHUA 68.2	A	5.82	.04	.16	1.25	.10	.04	.15	.46	.18	.10			.14				.28						.56	.15	*	*	*	*	1.47	*	*	
MAKAHALAU 103	A	.16																	.16													.11	
MAUKA 2	A	3.47	*	*	.50	.02	T	.70	*	*	1.30	T	.05		T	*	*	T								.40		.10	T	.40		*	
MAUNA KEA BEACH 98		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAUNA LOA SLOPE DBS	A	.49	.02	*			.04	*	.04	.03	.02									.04	.01									.02	.08	.19	
MIDDLE MOULALOA 88.1	A	3.76	*		.13	.30	*				.51									.51		2.31										*	
MIDDLE PEN 147.1	A	.00																															
MOAULA 18	A	1.48	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.48	*
MOUNTAIN VIEW 91	A	10.55	.29		.27	.30	.22	.34	3.32	.78	.07		.01	.03	.21		.02	.38	.08	.59	.41	.35	.02	.94	.49	.10	.02	.86	.12	.28	.05	*	
NAALU	A	1.40	.27		.12			.14			.40																					*	
NAPOOPOO 28	A	1.78	*	*	.52	*	*	*	*	*	.45	*	*	*				.12	.04	.02	.09	.06	.02		.20							*	
NAULU FOREST 38.6	A	1.46	*	*	*		.14	.20	.26	*	*	*	*	*	*	*	*															.26	
NIULII 179	A	1.46	*	*	*		.14	.20	.26	*	*	*	*	*	*	*	*															.40	
ODKALA 223		3.95			.05	.01	.08	.11	.55	.43	.03				.02	.01			.01	.42	.92	.08	.35	.26	.06		.25	.15	.16	*	*		
OPHIOMALE 2 24.1	A	3.58	.18	.08	.04	.02	.02	.05	.59	T	.31	.16	T		.07	.17	.08	.04	T	.28	.20	.13	*	T	.04	.69	T	.41	T		.02		
ORCHID LAND EST 91.5	A	7.37	*	*	*	*	*	2.74	*	*	*	*	*	*	.97	*							1.36									*	
PAAHU 217		.56		.04			.04	.15	.12																							*	
PAHULO 221	A	.86		.18	T	.01	T	.18	.11	T				.01								T	.02			.02	.19	.01	.09	.04	.07	T	*
PAHALA 21	A	3.30	*	*	.28		.01	.03	*		2.86							.08	.02	.09	.19	.19	.26	.01	.01	.18	.16	.16	.43	.15	.37	.07	
PAHOLA 65	A	7.05	.13	.12	.46	.45	.81	.87	.52	.05				.07	.09	*	.08	.06	.02	.33	.19	.19	.26	.01	.08	.18	.16	.16	.43	.15	.37	.07	
PAKAO 37	A	2.00	*	*							*	*	*																			2.00	
PAPAIAKU 144.1	A	6.96	.13	.01	.03	.28	.55	.47	1.13	.63	.05		T	T	.20	.01		.05	.10	.12	.22	.23	.88	.01	.67	.36	.06	.07	.58	.04	.03	.06	
PAPAIAKU MAUKA 140.1	A	10.13	.22	.09	.46	.17	.14	.41	1.50	.70	.20			.67	.01			.05	.25	.15	1.11	.45	.36	.05	1.26	.65	.10	.18	.58	.12	.21	.04	
PEPEEKED MAKAL 144	A	4.63	.05		.02	.55	.35	.11	.65	.25	.03		.01	.01	.28	.02	.02			.44	.01	.05	.33	.22	.48	.13	.23	.12	.17	.05	.05		
PIIMHUA 89	A	17.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
POHAKULOA 107	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PUAKO 95.1	A	.46	T	.10																													
PUU KIME 120	A	.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.25	
PUU LAU 102.1	A	.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.70	
PUU LEHUA 73	A	1.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.30	
PUU MALI 113	A	.49	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.49	
PUU DD 82	A	5.23	.09	.04	.36	T	.05	.21	.26	.08	.36	.38	.11	T	.27	T			.10	.21	.78	.66	.18	.01	.59	.10	.05	.02	.10	.04	.18	*	
PUU WAANAA 94.1	A	1.89		.21			.66		.66	.36																						*	
SAOOLE ROAD 1 84	A	14.99	*	*	*	*	*	4.57	*	*	*	*	*	*	2.75	*	*	*	*	*	*	4.32	*	*	*	*	*	*	3.35	*	*	*	*
SOUTH POINT CORRAL 3	A	1.68		.30	*				.16		.04	.01	.01											1.06		.04	.06	.01			.16	*	
UMIKOA 118	A	.33	.05		.02			.07	T		.04	.01	.01																			*	
UPOLU POINT USCG 159.2	A	.57			.02	.13																										*	
WAIKAE SGO 88.2	A	10.39	.37	.07	.57	.25	.18	.34	1.43	1.78	.25			.51					.21	.13	.66	.51	.56	.05	.92	.38	.13	.17	.55	.24	.13	.04	
WAIKAE KOMALA	A	.17	T											.02					T	T	T			T	.03	.10	T		T	.01	.01	*	

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation								Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
							150TH MERIDIAN													
							02	08	14	20										
HILO WSD 87	14	1.3	6.2	20	E	20	89	77	65	86	3	11	9	1	2	0	26	36	6.6	
HONOLULU WSFO 703	5	12.6	14.1	29	NE	24	72	65	54	67	13	7	1	0	0	0	21	78	4.4	
KAHULUI WSD 398	5	11.4	12.6	29	E	19	83	70	52	73	7	5	0	0	0	0	12	81	3.5	
LIHUE WSD 1020.1	6	10.5	12.1	22	NE	24	77	71	64	73	7	11	3	0	0	0	21	70	5.5	

DAILY TEMPERATURES

HAWAII
MAY 1971

Station		Day of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
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ISLAND OF KAUAI																																		
KANALOHULU 1775	MAX MIN	70 53	72 48	70 53	68 55	70 54	67 53	70 54	69 53	67 45	68 44	71 42	71 46	68 46	68 49	74 52	71 56	68 55	71 48	70 49	70 54	71 52	69 49	71 54	69 55	70 53	71 52	72 46	70 55	71 54	71 51	75 54	70.1 51.1	
KILAUEA POINT 1133	MAX MIN	77 70	78 71	77 69	77 68	79 69	79 67	78 71	79 69	78 71	80 68	81 71	79 71	79 70	79 71	78 71	80 71	80 73	80 71	80 73	80 72	81 71	81 69	79 69	79 71	79 70	79 72	79 70	79 72	79 70	81 68	81 73	79.1 70.4	
LIHUE WSO 1020.1	MAX MIN	75 69	85 67	80 73	81 71	81 72	81 73	81 73	81 73	81 73	81 73	82 73	82 74	82 75	82 75	83 75	82 75	83 75	82 74	83 74	83 74	83 74	83 74	83 74	82 74	83 74	84 71	83 73	84 71	83 74	84 72	82.0 71.8		
MAKAHUEA POINT 940.1	MAX MIN	83 67	83 66	83 66	80 66	80 66	81 69	80 67	81 66	80 66	84 65	82 71	86 66	86 66	82 66	85 69	85 74	85 73	85 75	85 74	82 71	83 70	80 70	81 70	81 72	81 70	81 72	81 70	81 72	81 70	83 69	81 68	82.5 69.3	
MANA 1026	MAX MIN	83 67	79 64	85 65	85 60	84 62	85 65	88 64	86 64	84 64	83 64	83 65	83 64	82 65	83 65	82 65	85 65	88 65	85 65	84 65	88 65	88 65	89 67	87 63	88 65	88 62	87 64	87 63	87 63	88 62	89 63	88 65	90 66	85.6 84.1
NIU RIDGE 1035	MAX MIN	80 63	79 60	81 59	80 58	78 59	80 59	79 60	80 62	82 61	81 60	81 61	80 60	80 60	81 61	80 60	81 60	81 60	80 60	81 60	82 60	82 60	81 60	82 58	81 60	82 58	82 60	81 61	82 61	82 62	83 63	82 65	82 64	80.7 61.0
WAIAMI LOWER 1054	MAX MIN	73 65	79 59	78 66	79 65	77 65	77 64	78 64	78 64	80 60	80 59	82 58	80 60	80 64	80 64	82 64	82 65	81 68	81 66	80 66	78 66	80 66	80 64	80 63	78 62	78 65	79 65	79 61	79 63	80 62	80 63	79 66	79.3 63.6	
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ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	82 65	77 63	82 65	81 64	81 65	82 64	82 65	83 65	82 60	80 61	80 60	82 61	83 62	82 64	85 64	82 66	85 66	82 64	85 66	80 66	83 65	83 65	83 65	82 65	83 65	82 65	82 64	83 66	84 66	85 66	85 66	82.5 64.0	
HONOLULU WSO 703	MAX MIN	77 69	84 68	81 71	82 70	82 71	82 71	83 69	83 68	81 66	83 66	84 65	83 67	83 69	84 70	84 70	85 72	87 72	84 72	82 72	83 71	82 71	82 70	81 69	83 71	83 70	82 71	82 70	82 70	83 72	82 70	83 72	82.6 69.8	
HONOLULU SUBSTA 704	MAX MIN	76 70	79 69	78 71	79 72	78 71	79 71	80 69	79 67	78 67	79 68	81 69	81 69	82 71	80 72	81 72	82 72	81 72	81 72	81 72	80 71	82 71	81 71	80 71	80 72	79 71	80 72	80 71	79 73	80 71	79 71	79 72	79.6 70.9	
KAHUKU 912	MAX MIN		80 70	80 69	80 71	80 69	79 72			79 64	82 62	81 69	81 70	82 72		84 72	82 73	82 73	82 73	82 72	83 71	82 71	82 71			82 70	81 71	81 70	81 72			82 72	82.6 69.9	
KANEHE MAUKA 781	MAX MIN	78 70	78 69	80 71	79 67	79 72	79 71	80 68	80 66	81 66	81 66	81 65	82 65	80 66	80 66	79 71	81 71	81 71	82 72	82 71	80 71	80 71	81 70	80 68	79 67	79 67	79 68	81 70	80 68	79 69	79 73	80.1 69.0		
LUALUALEI 804	MAX MIN	82 66	75 64	83 64	82 70	82 70	89 70	84 69	84 66	83 62	85 62	83 63	81 65	85 66	85 66	84 72	85 72	86 73	85 73	85 73	84 69	84 72	84 71	84 71	85 70	84 72	85 70	84 68	83 72	83 70	84 71	84 70	83.6 68.7	
MAKAPUU POINT 724	MAX MIN	76 67	74 62	77 67	74 66	75 65	76 67	76 67	77 65	77 67	77 61	81 61	80 67	77 67	79 69	77 68	77 67	80 69	78 70	74 68	77 70	77 62	77 69	75 68	76 67	76 69	76 67	76 67	76 67	76 68	76 67	75 67	76.6 66.9	
OPAELUA 870	MAX MIN	75 66	78 61	79 66	77 63	77 63	77 63	78 64	77 62	79 59	83 61	83 59	80 59	80 61	83 64	82 64	80 66	81 66	81 66	74 64	77 65	77 65	77 65	78 65	78 65	76 65	76 65	76 65	77 64	79 64	78 64	78.6 63.5		
PRI WAIHANA 820.2	MAX MIN	80 64	72 61	81 61	80 63	80 63	81 63	81 61	80 58	80 58	84 58	83 58	83 58	84 61	85 63	85 63	85 63	85 63	78 64	81 64	82 60	82 64	82 59	82 65	81 65	82 63	81 62	82 64	82 65	82 65	80 65	81.5 62.1		
WAIALUA 847	MAX MIN	80 69	77 66	82 62	82 63	83 63	82 63	83 63	83 61	83 58	82 58	85 58	85 59	85 62	87 62	82 62	85 63	86 63	86 63	87 63	80 63	83 63	83 63	82 63	82 63	82 63	82 62	83 62	83 62	83 62	82 62	82.9 62.5		
WAIKIKI 717.2	MAX MIN	83 68	77 66	83 70	83 67	83 67	84 69	84 70	84 70	84 70	84 68	86 65	86 65	84 67	84 70	86 70	86 71	86 71	86 71	85 71	85 70	83 70	83 68	83 69	85 68	84 70	85 68	85 68	84 69	85 68	86 67	85 69	84.3 68.7	
WAIMANALO EXP FARM	MAX MIN	79 70	77 70	80 71	80 70	80 72	80 70	81 71	82 71	82 71	82 64	85 65	82 69	82 72	82 72	82 71	83 72	82 73	82 72	80 72	82 72	82 73	82 73	82 73	82 73	82 73	82 73	82 73	82 73	81 70	81 70	81.5 70.7		
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ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	77 68	79 71	80 69	78 68	80 68	77 68	80 68	80 67	79 70	79 64	80 62	80 65	82 62	82 66	82 69	82 73	81 69	82 68	81 68	81 67	81 69	81 69	81 67	80 67	78 70	80 69	79 69	79 68	80 70	80 70	80 73	83 71	80.1 68.3
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ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	72 62	72 63	75 62	73 59	73 61	74 63	74 62	74 61	75 61	74 59	74 58	74 58	75 58	75 59	77 63	78 60	77 61	80 63	78 64	77 62	78 62	78 62	76 63	76 64	76 65	74 64	74 64	75 63	74 64	73 65	73 64	77 63	75.1 61.9
• • •																																		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	64 46	61 44	62 45	59 44	64 41	61 40	58 43	59 38	57 35	51 36	57 36	59 41	61 39	65 40	65 41	65 41	65 41	60 40	61 38	58 35	52 36	59 43	60 42	59 42	62 42	61 43	62 46	62 48	63 42	66 46	60.2 41.4		
HALEAKALA SUMMIT 338.4	MAX MIN	50 41	57 35	51 36	51 36	52 38	50 33	52 33	47 32	46 34	50 32	52 41	56 41	55 44	55 41	53 40	55 41	55 41	54 37	54 40	53 38	53 34	55 33	55 33	53 38	56 43	53 35	52 38	52 41	56 36	51 34	52.8 37.5		
MANA AIRPORT 355	MAX MIN	81 69	82 66	82 64	82 68	80 67	81 64	81 65	82 64	82 64	82 63	83 63	83 64	83 70	83 70	83 70	85 67	83 66	85 66	81 68	84 71	85 68	85 65	83 64	83 69	82 65	81 65	82 65	82 65	81 65	82 65	82 65	82.4 66.5	
KAAHAPALI AIRPORT	MAX MIN	78 64	77 64	82 63	81 65	81 65	82 63	82 62	81 62	81 61	81 63	82 63	83 63	83 65	84 67	84 66	84 66	83 66	84 65	83 65	83 65	82 62	82 62	82 65	82 65	81 65	80 65	80 65	82 64	81 68	83 67	83 64	81.8 64.4	
KAHULUI WSO 398	MAX MIN	83 62	85 62	83 70	84 69	85 69	84 65	85 69	84 65	85 60	86 60	86 60	87 58	85 60	85 63	90 61	88 63	88 63	87 63	86 63	86 70	86 63	86 63	85 63	85 63	85 63	85 63	85 63	85 63	86 64	88 64	86 64	85.5 64.7	
KAILUA 446	MAX MIN	73 66	76 66	77 66	76 66	76 65	76 65	76 65	75 62	75 62	77 61	77 63	76 64	77 64	78 64	77 67	77 67	77 67	77 67	78 66	78 66	78 66	77 67	77 65	77 65	75 65	75 65	75 65	76 64	75 65	76 65	76 64	76.3 64.7	
KEAWAKAPU BEACH 260.2	MAX MIN	79 63	80 63	83 61	91 61	90 61	86 60	84 63	87 60	88 60	87 61	89 61	85 58	87 61	86 60	90 60	84 64	85 64	85 64	84 61	88 62	88 60	89 63	85 63	85 63	85 63	85 63	85 63	85 63	86 64	88 64	88 64	86.9 81.5	
KULA SANATORIUM 267	MAX MIN	70 72	72 56	71 55	70 50																													

Continued

DAILY TEMPERATURES

HAWAII

1971

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
LAHAINA 361	MAX MIN	80 66	80 67	84 67	85 67	86 67	82 67	85 68	85 68	85 66	85 68	84 68	84 64	86 66	85 65	85 66	86 67	85 66	86 66	86 66	87 66	86 66	86 65	86 65	87 64	85 66	86 65	85 66	85 67	86 66	84.9 66.3		
WAILUKU 386	MAX MIN			79 66	79 69	78 69	78 68	79 68			80 63	80 66	81 68	81 67	80 70			83 68	83 70	81 69	82 69	81 70			79 67	79 68	79 69	79 68	80 68				
* * *																																	
ISLAND OF HAWAII																																	
MAINA 214	MAX MIN	79 62	78 64	79 66	80 64	79 63	79 64	80 63	79 62	80 61	80 63	80 61	81 63	79 61	80 63	79 66	79 68	81 63	80 65	81 63	80 67	79 67	80 63	80 64	79 65	80 62	80 65	80 66	81 66	80 63	79 66	79.7 64.0	
HAWAII VOLCNS NP HO 54	MAX MIN	62 53	65 55	67 53	66 52	62 51	65 51	66 52	65 51	66 51	65 48	68 44	67 49	70 49	69 48	68 54	71 52	71 52	71 54	68 52	65 54	60 53	63 49	67 49	69 52	63 52	66 49	67 51	66 52	69 51	64 52	73 51	66.7 51.2
HILO WSO 87	MAX MIN	78 63	82 66	82 65	80 62	81 60	80 61	79 64	79 62	80 60	82 59	82 61	82 62	79 61	84 63	84 66	83 66	83 69	79 66	83 69	80 64	80 64	80 63	79 65	80 64	81 65	81 62	79 64	80 65	83 65	83 64	80.9 63.5	
KAINALIU 73.2	MAX MIN	74 62	72 64	72 61	76 60	74 61	76 60	75 60	75 59	75 59	74 58	75 60	75 60	77 61	79 62	77 61	77 63	76 64	75 63	76 62	76 62	77 62	76 59	75 60	76 59	77 60	75 61	75 61	74 61	76 61	77 63	77 62	75.5 61.0
KAMUELA 192.2	MAX MIN	70 54	74 55	72 57	72 58	70 57	72 58	71 57	72 58	70 57	74 58	75 45	76 48	71 51	77 51	76 53	74 50	78 52	76 55	74 53	69 57	75 54	72 55	70 56	72 57	69 55	71 57	72 57	71 56	72 58	74 57	72.7 53.9	
KEAAU 92	MAX MIN	74 65	77 66	78 65	79 64	78 63	78 63	78 63	76 62	77 61	78 60	79 60	79 63	80 63	78 66	79 64	82 65	80 64	80 64	75 65	78 64	78 65	78 63	79 63	79 64	76 64	78 62	78 64	77 64	79 65	80 66	78.2 63.7	
KEALAKEUA 26.2	MAX MIN	72 64	73 64	72 62	76 62	74 61	77 61	77 60	76 60	77 59	74 59	74 61	75 59	76 61	81 62	76 61	77 63	76 65	75 63	77 63	76 63	76 63	76 60	76 61	76 60	79 61	76 62	76 62	74 62	76 60	78 63	77 63	75.8 61.6
KOHALA MISSION 175.1	MAX MIN	77 65	77 65	78 67	78 66	76 65	77 65	77 65	78 65	76 61	78 62	81 61	79 66	79 65	80 67	80 67	79 65	80 66	80 66	79 66	79 66	79 66	79 65	79 65	78 66	78 65	78 65	78 65	78 65	79 66	79 66	78.3 64.9	
KONA (KAILUA) 68.3	MAX MIN			84 67	83 69	80 69	83 68	83 69			83 64	83 68	80 70	82 68	88 69			85 68		83 70	80 69	86 66				83 65	82 68	82 67	83 69	81 70		83 69	
KULANI CAMP 79	MAX MIN	72 45	59 49	61 50	61 48	61 44	54 45	61 44	59 45	59 41	61 41	63 44	62 45	82 40	62 41	53 44	67 43	67 44	65 50	65 50	64 49	64 48	64 48	61 45	62 44	61 45	61 46	59 47	60 48	61 44	59 44	70 45	61.9 46.0
MAUNA LOA SLOPE OBS	MAX MIN	52 38	48 34	51 32	51 32	52 31	48 30	45 28	44 27	46 27	51 32	54 35	58 38	52 35	53 34	57 35	54 37	55 35	52 34	55 32	50 32	49 33	55 33	55 33	55 34	54 35	56 33	53 34	53 37	50 33	48 32	51.8 33.2	
MOUNTAIN VIEW 91	MAX MIN	75 60	75 60	75 60	75 60	70 58	74 57	74 59	77 54	77 54	77 54	76 54	78 56	77 59	76 59	79 59	79 59	78 60	78 61	73 62	73 62	72 62	76 57	76 57	76 57	71 60	75 58	75 58	74 60	67 61	67 61	67 61	74.6 58.5
NAALEHU 14	MAX MIN	72 66	76 65	76 65	78 67	76 65	76 63	76 63	76 63	76 60	76 60	77 64	75 64	77 65	77 68	78 65	78 65	78 67	78 67	77 67	77 67	76 64	77 63	77 63	77 63	77 66	77 61	77 63	77 67	77 67	78 67	78 67	76.5 64.8
OOKALA 223	MAX MIN	76 66	78 63	80 66	79 64	78 64	77 64	78 63	78 62	78 62	78 65	78 62	79 60	80 66	79 65	79 65	79 65	79 65	79 65	79 65	78 63	78 64	78 64	79 63	78 64	79 63	78 64	79 64	79 64	80 64	78.4 64.1		
OPIHIHALE 2 24.1	MAX MIN	73 63	76 62	76 59	72 58	73 58	77 59	77 59	78 59	77 58	78 58	73 59	76 58	79 57	77 59	75 61	74 62	75 64	81 61	75 61	76 61	75 59	72 61	74 58	77 58	77 58	77 58	73 59	71 59	77 61	79 60	78 60	75.8 59.6
PAHALA 21	MAX MIN			76 61	76 62	71 61	72 60	72 61	77 60	79 61		77 57	77 57	76 58	78 60			79 60	78 65	78 62	76 64	76 66				78 59	77 61	77 59	78 61	78 61	79 60	79 60	
PUAKO 95.1	MAX MIN	83 68	84 69	84 68	87 70	85 70	84 70	85 68	85 65	84 65	84 65	83 62	82 67	87 67	86 68	83 68	84 65	85 69	85 65	85 65	85 69	85 69	85 69	85 69	85 69	86 71	86 70	85 68	87 68	85 68	85 67	84.7 68.1	
UPOLU POINT USCG 159.2	MAX MIN	80 70	79 71	80 71	80 69	79 61	81 67	79 69	80 69	80 69	82 70	83 66	82 67	81 68	83 69	82 70	83 69	83 70	83 67	80 70	80 71	80 68	82 67	80 68	80 68	76 70	80 66	80 72	81 66	80 68	82 68	81 73	80.8 68.6
WAIHEA KOHALA	MAX MIN	72 52	72 54	71 58	72 54	71 55	72 55	72 52	72 52	71 44	74 46	74 45	74 54	73 50	72 47	73 47	75 47	78 47	76 52	74 50	76 55	72 55	76 54	70 56	70 57	72 57	73 52	72 50	72 57	74 50	76 54	73.0 52.2	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1	EVAP	.17	.06	.29	.33	.31	.57	.31	.30	.24	.18	.30	.26	.33	.37	.32	.33	.33	.28	.35	.49	.45	.40	*	.59	.35	.32	.45	.41	.39	.28	-	10.098
	WIND	137	24	59	157	157	133	133	96	59	52	69	144	128	160	124	167	149	157	204	209	159	201	*	451	216	209	226	80	139	105	10.098	
	MAX	86	84	84	83	83	84	85	86	86	84	89	88	87	86	88	85	85	85	84	82	82	84	*	84	80	85	83	83	88	85	84.3	
	MIN	63	60	61	63	63	63	62	60	38	59	59	61	63	63	64	65	64	64	64	63	64	62	=	62	62	62	61	62	62	63	62	62.1
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.19	.03	.19	.26	.30	.21	.30	.26	.27	.26	.25	.26	.21	.29	.26	.26	.30	.30	.25	.15	.32	.35	.34	.31	.36	.30	.34	.33	.39	.28	.32	8.44
	WIND	26	4	26	41	35	33	31	26	24	25	20	29	31	38	26	30	34	24	29	28	40	30	35	38	49	42	31	48	47	35	29	984
	MAX	82	75	86	90	88	89	91	89	91	92	93	92	87	90	89	91	90	90	87	82	88	90	92	88	91	90	89	89	91	89	90	88.7
	MIN	65	64	64	64	64	63	65	63	63	63	64	64	64	65	65	67	67	67	67	65	65	63	65	64	64	64	64	64	66	65	65	64.6

See Reference Notes Following Station Index

HAWAII
MAY 1971

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STATION INDEX

HAWAII
MAY 1971

CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL										TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII																									
MIDDLE PEN 147.1	A 627	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH	UPOLU POINT USCG 159.2	883	01	N KOHALA	1	20 15	155 53	61	8				U S COAST GUARD
MOAILA 19	A 640	01	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO	WAIKES SCU 88.2	9025	02	S HILU	2	19 40	155 08	1050	7				SHINICHI KANESHIRO
MOUNTAIN VIEW 91	A 652	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO	WAIKANDOUA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830	8A				KAHUA RANCH
NAALEHU 14	A 658	03	KAU	3	19 06	155 35	675	8A	8A			HUTCHINSON SUGAR CO	WAIKES 178.6	9550	05	S KOHALA	5	20 00	155 40	2655	8A				HAWAIIAN AIRLINES
NARDOPPO 24	A 689	04	S KOHALA	1	19 28	155 55	985		7A			MAUNA KEA EXPERIMENT STA	CLOSED STATIONS												
NAULU FOREST 38.6	A 673	02	PUNA	2	19 19	155 08	1400		VAR			HAWAII VOLCANOES NAT PK	ISLAND OF OAHU												
NIULII 179	A 640	01	N KOHALA	1	20 14	155 45	75		6A			KOHALA SUGAR CO													
ODAKA 229	A 713	02	N HILU	2	20 01	155 17	430	7A	7A			LAUPANOHUE SUGAR CO	PUNALUU 884	831	01	KOOLAULOA	1	21 35	157 54	40	8				CLOSED 5/31/71
OPIMIALE 2 24.1	A 716	04	S KOHALA	4	19 18	155 53	1270	7A	7A			MISS C LEONARD													
ORCHID LAGO EST 91.5	A 718	02	PUNA	2	19 34	155 00	445		VAR			ROARO OF WATER SUPPLY													
PAALUHA 217	A 720	01	MAHAKUA	1	20 05	155 26	415	7A				PAALUHA SUGAR CO													
PAALUHA 221	A 731	01	MAHAKUA	1	20 08	155 12	800	7A				HAWAIIAN RANCH CO													
PAHALA 21	A 742	03	KAU	3	19 12	155 29	870	8A	8A			HAWAIIAN AIR CO													
PAMOA 65	A 745	02	PUNA	2	19 30	154 57	670	8A				PUNA SUGAR COMPANY													
PAKAO 37	A 744	03	KAU	3	19 12	155 28	5000	7A				HAWAIIAN RANCH CO, INC.													
PAPAIOU 144.1	A 771	02	S HILU	2	19 47	155 08	1270	7A				MAUNA KEA SUGAR CO.													
PAPAIOU MAUKA 140.1	A 772	02	S HILU	2	19 47	155 08	1270	7A				MAUNA KEA SUGAR CO.													
PEREKEO MAUKA 144	A 800	02	S HILU	2	19 51	155 05	100	7A				PEREKEO SUGAR CO													
PIIMONUA 89	A 805	02	S HILU	2	19 44	155 10	1730		VAR			STATE DIV OF FORESTRY													
POHAULUA 107	A 806	03	MAHAKUA	3	19 45	155 32	6511		VAR			STATE DIVISION OF PARKS													
PUNAKO 95.1	A 818	05	KOHALA	5	19 59	155 50	5	8A	8A			ERWIN H. RAPP													
PUNU KINE 120	A 899	01	MAHAKUA	1	19 56	155 24	7750					KOOLAULOA RANCH CO													
PUNU LAHU 102.1	A 842	05	MAHAKUA	5	19 50	155 30	7440					STATE DIV OF FISH-GAME													
PUNU LEHIA 73	A 840	04	N KOHALA	4	19 34	155 49	4880					GREENWELL RANCH													
PUNU MAUI 113	A 851	01	MAHAKUA	1	19 55	155 26	6940					KOOLAULOA RANCH CO													
PUNU OD #2	A 850	02	S HILU	2	19 44	155 23	6340	6A	C			ODN WINTERS													
PUNU WABAA 94.1	A 855	05	N KOHALA	5	19 47	155 51	2320	7A	C			GILLINGHAM RANCH INC													
SADOLE ROAD 1 84	A 850	02	S HILU	2	19 42	155 12	2340					BURN OF WTR SUPPLY													
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500					HAWAIIAN RANCH COMPANY													
UPOLU 118	A 8780	01	MAHAKUA	1	19 59	155 23	3420	7A	C			KOOLAULOA RANCH CO													

↑ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAUI 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS. Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in $^{\circ}\text{F}$, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME. Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES. Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.

No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates.

++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

Amount included in following measurement, time distribution unknown.

A The letter "A" shows following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletin for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

Thermometers are generally exposed in a shelter located a few feet above sod-covered ground, however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

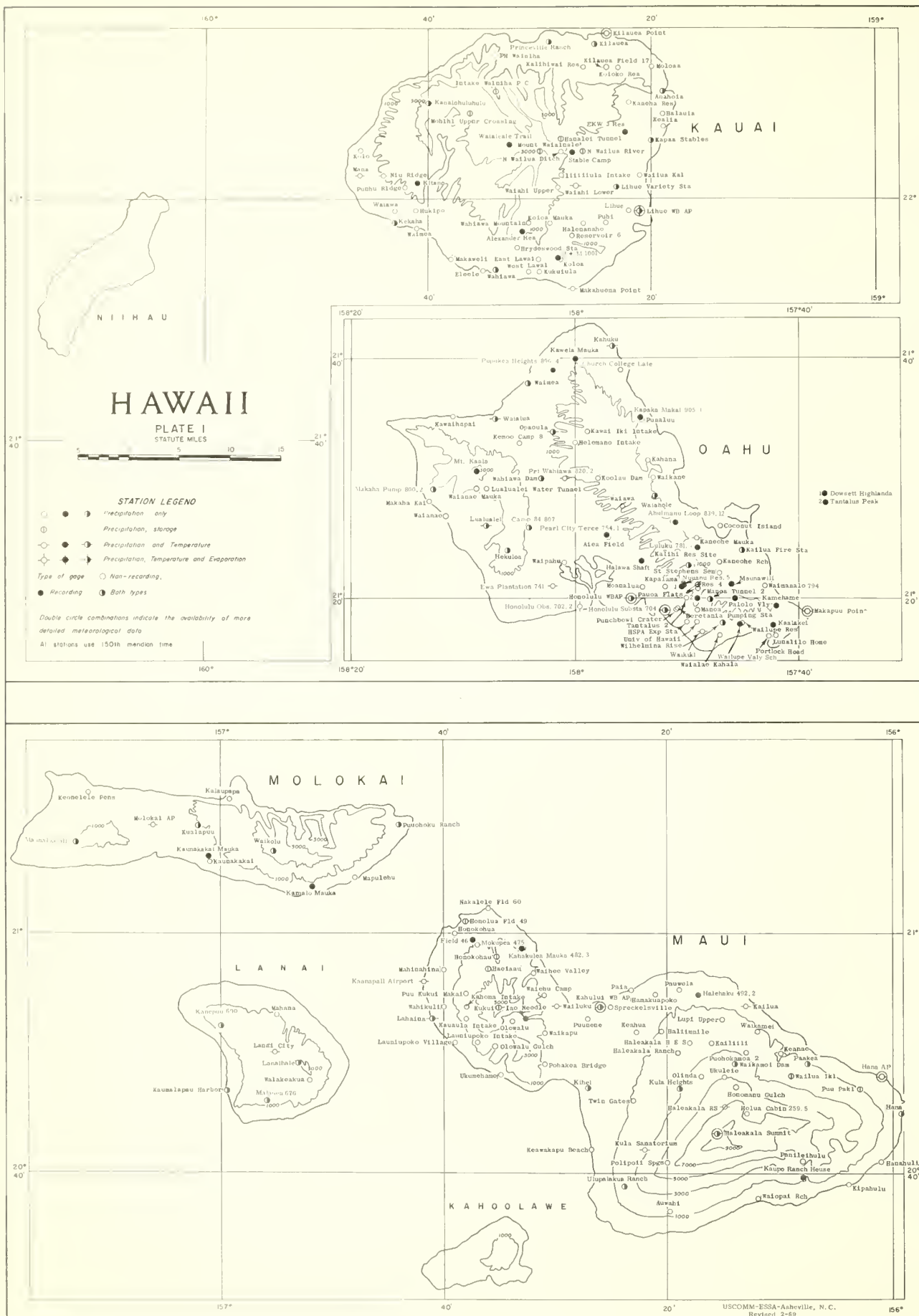
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

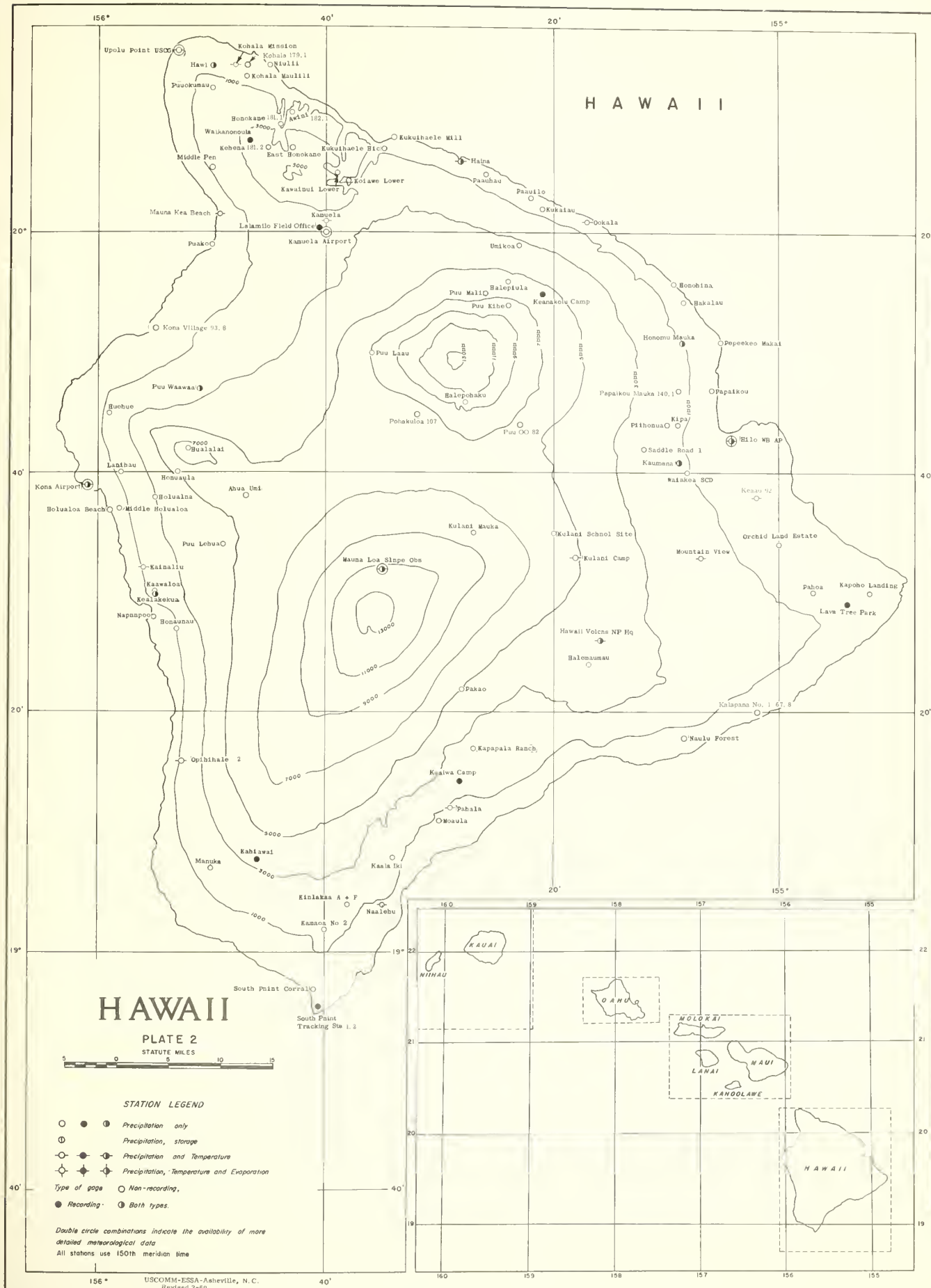
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular Weather Bureau stations may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price. 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

USCOMM-NOAA-ASBVILLE-8/27-71-899





CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

JUNE 1971

Volume 67 No. 6

OCT 25 1971

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature											Precipitation														
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
									TECH. & AGG.								Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
									91° or Above	81° or Above	71° or Above	61° or Above														

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 67

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
JUNE 1971

Station		Temperature										Precipitation												
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date		No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
											Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											90° or Above	32° or Below	32° or Below	0° or Below										
KFALAKEKUA 26.2		76.8	62.7	69.8		80	17	60	30+		0	0	0	0	2.38		1.10	30	.0	0		7	1	1
KONA (KAILUA) 68.3	A	83.5M	69.3M	76.4M		87	3	68	30+		0	0	0	0	.53	- 2.18	.31	11	.0	0		0	0	0
KUKUIHAELE HIC 199															.86		.31	11	.0	0		2	0	0
KULANI CAMP 79		62.6	45.4	54.0		75	21	40	30+		0	0	0	0	.78		.14	3	.0	0		3	0	0
PAHALA 21	A	79.2M	61.5M	70.4M	- 1.8	83	28	58	14		0	0	0	0	.19	- 1.14	.14	29	.0	0		1	0	0
POMAKULOA 107	A														.09				.0	0		0	0	0
PAUO 95.1	A	85.4	69.9	77.7		88	28+	67	15+		0	0	0	0	T		T	25	.0	0		0	0	0
PUU WAAWAA 94.1	A														.04	- 2.08	.04	4	.0	0		0	0	0
UMIKOA 118															.17	- 1.53	.08	11	.0	0		0	0	0
WAIKAE SC0 88.2															4.34		.73	3	.0	0		10	3	0
WAIKAE KAHALA		73.1M	54.8M	64.0M		76	30+	46	13		0	0	0	0	.40		.14	14	.0	0		1	0	0
ISLAND				69.4											1.22				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 92° ON THE 2D AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 29° ON THE 2D AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 15.27 INCHES AT MOUNT WAIKAELE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 11 STATIONS

GREATEST ONE-DAY PRECIPITATION: 6.18 INCHES ON THE 15TH AT PAUOA FLATS 784, OAHU

SPECIAL WEATHER SUMMARY

June presented the curious picture of record-breaking rains in some areas and a worsening dry spell in others. However, as in previous dry periods, water shortages and their adverse effects were not particularly widespread, but were being felt in only a few localities.

Except for mid-month rains in parts of Kauai, Oahu, and Maui, the dry conditions of May continued unabated through June. On northern and central Kauai, throughout Maui (except along the southwestern coast, where several gages recorded 4 to 7 times their monthly means), and on all of Lanai and Hawaii Island, only a few stations received even half their average rainfall for June, while many had less than one-fourth.

By the end of the month the following effects were being noted:

1. Soil moisture was depleted and pasture conditions poor, especially on ranches in Hawaii Island's Hamakua District, where forage was low and in some places being supplemented by grain -- for example, in the Ahualoa, Paaui, Honokaa, Kukuihaele, and Kukaiau areas. Some herds were being thinned to stretch out feed, and a few ranches and dairies were hauling in water for stock.

2. Also in Hamakua, where most sugarcane (a 2-year crop in Hawaii) is unirrigated, its growth had been retarded and damage to next year's crop was feared.

3. Crops in unirrigated fields were showing moisture stress and irrigation water was below normal.

4. The dry conditions had extended from Hamakua northward and westward into Kohala and into Kona. In the latter area, unlike most of the State, summer is the wetter season whose rains usually green the pastures, ranchers were pumping county water.

5. In east Maui's Hana area, known for its lush greenery, Waianapanapa State Park was closed for lack of water and water was being hauled to a large pigery.

On the 15th, an unseasonably late cold front that swept in from the northwest, and a low pressure center that formed 600 miles north-northeast of Honolulu, in the front's convergence zone with the surface trough of low pres-

sure over the northern islands, brought steady rains to Kauai, Oahu, and central Maui.

Rainfall was heaviest on Oahu, where several records for 24-hour and monthly accumulations were broken. Honolulu Airport received 2.39 inches during the storm and 2.46 inches for the month as a whole, in contrast with its June average and previous maximum (in 25 years of record) of 0.33 inches and 2.43 inches, respectively.

Downtown Honolulu's 3.20 inches in 24 hours exceeded its previous 68-year record of 1.23 inches, and the June total, 3.49 inches, was second only to the 4.26 inches registered by that station in June 1913.

Also on Oahu, Maunawili, a windward (eastern) locality, recorded 6.25 inches between 6 a.m. on the 15th and 4 p.m. on the 16th. Lualualei, a normally dry leeward (western) station, whose June rainfall averages only 0.76 inches, recorded 4.90 inches between 2 a.m. on the 15th and 6 p.m. on the 16th.

On Kauai, the 2.17 inches that fell at Lihue Airport in 24 hours, surpassed that station's previous 24-hour rainfall of 1.65 inches, established over a 21-year period of record.

At 1:05 p.m. on the 15th, a squall, suspected to have been a waterspout-tornado, probably spawned from clouds associated with the trough of low pressure than over Oahu, moved onshore from Keehi Lagoon and travelled east-northeastward through and over the industrial area of Oahu's Kalihi-Kai peninsula. Tracing out a short, straight path about 15 yards wide, the "waterspout-tornado" tore out sections of the sheet metal roof and wall and buckled the steel I beam along the wall of a large warehouse, flipped over a large sheet metal open-walled structure in the adjoining yard, causing an estimated \$30,000 in damage, and ended its career about a half mile inland, where it blew off a roof's sheet metal eave 100 feet above street level. Although no funnel was seen, workers caught in the junk yard as the "waterspout-tornado" passed over reported heavy rain, "roaring" noises and material whirling upwards.

As shown below, a number of gages with long periods of record had more rain than in any previous June, while an even greater number, principally on Hawaii Island, had their driest June of record.

H A W A I I - J U N E 1 9 7 1
SPECIAL WEATHER SUMMARY - Continued

Stations With More Rain in June 1971
Than in Any Previous June

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Greatest June Total	June 1971
<u>OAHU</u>		(Inches)	(Inches)
HSPA Experiment Station	54	3.71	4.18
Lualualei	47	3.93	5.14
St. Stephens Seminary	29	6.91	7.02
Waianae	81	3.16	3.53

Stations With Less Rain in June 1971
Than in Any Previous June

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Least June Total	June 1971
<u>MAUI</u>			
Honomanu Gulch	38	0.10	0.00
<u>HAWAII</u>			
Kaawaloa	71	2.36	1.62
Kainaliu	41	3.30	2.15
Lanikai	29	2.28	1.85
Manuka 2	43	0.70	T
Napoopoo	70	1.19	0.84
Papaikou Mauka	46	5.25	5.08

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DAILY PRECIPITATION

HAWAII
JUNE 1971

Station		Total	Day of Month																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF KAUAI																																			
ANAHOLA 1114	A	2.89																																	
BYRDESWOOD STA 985	A	2.54	.01	.04	.02		.01	*	*		.10	.04	.02	.03	*	*	.15	.02	.80	1.00	*	*	*	.32	T	.04	.16	.10	*	*		.04	.07	*	
EAST LAWA 934	A	3.23	.01	.03	.04	T	*	*	*		.07	.11	.20	.09	.03	*	*	.04	.16	.43	.31	.05	*	*	.32	T	.03	.02	.54	*	*		.03	.03	*
ELELE 927	A	1.55			T			*	*	*								.06	.04	.23	.19	.17	*	*	.46	.01	.04	.11	.47	*	*		.09	.19	*
HALAULA 1110	A	3.15						*	*	*	.15	.04		.04	.04	*	*	.15	.02	1.10	.85	*	*	*	.33		.03	.11	.04	*	*		.10	.15	*
HALENAHANO 1006	A	3.42	.02						.17	.18	.14	.08	.05	*	*	*	.36	.06	.52	.38	.06	*	*	.36	.02	.04	.16	.33	*	*		.13	.36	*	
HUKIPO 945	A	1.97																.32	.42	.23															
ILILIILUA INTAKE 1050	A	4.55	.29	.04	*	.07	*	*	*	.19	.63	.30	.18	*	*	.14	.08	.53	.46	.11	*	*	.48	.01	.15	.18	.37	*	*		.12	.22	*		
INTAKE WAINIMA PC 1086	A	3.37						.30	*				.90	*	*	*		.60				*	.48		.01	.15	.12	*	*		1.45	*	*		
KANALOHULULU 1075	A	1.55						.01	.05	.06				*	*	.78	.14	.20					.05	.01	.05	.01	.05		*		.09	.02	.03		
KANEHA RESERVOIR 1092	A	4.74	.07	.04				.35	.09	.08	.04	.20	*	*	*	.60	.03	.62	1.15	.07	*	*	.67		.06	.20	.19	*	*		.10	.18	*		
KAPAA STABLES 1104	A	3.86						.14	.08	.10	.08	*	*	*	.10	.04	1.47	.72		*	*	.24	.03	.10	.08	.13	*	*		.10	.40	.05	*		
KEALIA 1112	A	4.23						.05	.03	.02	.02	*	*	*	.10	.01	2.49	.85		*	*	.20		.03	.05	.03	*	*		.05	.30	*	*		
KEKAHA 944	A	1.36												*	*	.20	.61	.55																	
KILAUEA 1134	A	2.23	.02					.12	.01	.03	.09	.11	*	*	*	.04	.02	.02	.82	.03	*	*	.29	.01	.05	.09	.26	*	*		.16	.06	*		
KILAUEA FIELD 17 1135	A	2.10	.02	.05	.01			.24	.01	.12	.20	.16	*	*	.08	.04	.03	.25	.04	*	*	.30	.01	.06	.07	.22	*	*		.10	.09	*			
KILAUEA POINT 1133	A	2.29					.08	.10			.05			*	*	.05		1.10	.02	.16		.14	.05	.07	.05	.23	.08	*	*		.06		*		
KOLO 1033	A	1.29						.19	.14	.11	.06	.04	*	*	.65	.41	.03	.20			*														
KOLDA 936	A	5.06	.08	.07	.03			.02	.07	.08	.07	*	*	*	.05		3.36	.15	.10	*	*	.30		.04	.15	.30	*	*		.12	.15	*			
KOLDA HAUKA 994	A	3.74	.08	.04				.23	.22	.25	.10	.07	*	*	.27	.08	.68	.24	.04	*	*	.43	.04	.09	.18	.35	*	*		.14	.21	*			
KOLKOO RES 1137	A	2.72	.02				T	.25	.04	.13	.12	.17	*	*	.06	.05	.07	.52	.07	*	*	.39	.02	.10	.29	.15	*	*		.19	.06	*			
KUKULULA 935	A	1.95			.01	.01		T	.03	.06	.02	.03	*	*	.03		.78	.16	.06	*	*	.29		.04	.10	.23	*	*		.04	.06	*			
LIHUE VARIETY STA	A	4.20	.01					.03	.16	.06	.21	.06	.02	*	*	.18	.05	1.74	.82	.01	*	.31	.02	.11	.06	.14	*	.08		.02	.11	*			
LIHUE 1020	A	3.23	.02	.02				.03	.03	.03	.03	*	*	*	.30	.02	.18	.17	*	*		.22		.02	.14	.26	*	*		.03	.10	*			
LIHUE WSD 1020.1	//R	2.98	T	T	T	.01	T	.02	.05	.07	T	T	.05	.07		1.81	1.68				.07	.02	T	.09	.11	T	T	T		.02	.01	T			
MAKAHUENA POINT 940.1	A	3.35		.01	.01			.04		.11	.01				.05	2.43	.33	.03	.01	.08					.11	.12	.01						*		
MAKAWELL 965	A	1.55						.02							.12	.14	.21	.04						.02									*		
MANA 1026	A	1.58						.19	.14	.11	.06	.04	*	*	.37	.55	.65	.01						.06	.25	.44	*	*		.12	.47	*			
MOHIMI UPR CROSS 1083	A	2.01	.08					.08	.16	.16		.16			.49	.16	.08			.16	.08		.08	.08	.08		*	*		.16		*			
MOLDAA 1145	A	2.32						.13		.06		.15			.14	1.05				*	.23			.03	.12	.11	*	*		.11	.19	*			
MOUNT WAILALEALE 1047	A	15.27	.39	.24	.08	.08	.31	.28	1.46	1.54	.87	.31	.31	.28	.16	.04	.43	.43	1.02	.04	1.38	.35	.08	.39	.51	1.77	.12	.83	.35	1.14	.08	*			
NIU RIDGE 1035	A	1.27														.37	.25	.65															*		
N WAILUA OITCH 1051	A	7.87	.26	.20	.16			.70	.20	.46	.30	.36	*	*	.36	.26	1.16	.59	.20	*	.76		.26	.20	.66	*	*		.36	.26	.16	*			
PH WAINIMA 1115	A	2.15	T	T			T	.04	.20	.02	.18	.20	.12	.03	.01		.20	.08	.09	*	.22	T	.08	.17	.35	T				.10	.06	*			
PRINCEVILLE RANCH 1117	A	4.05	.55	.03										*	*	.72		.23		*		.23		.05	.14	.29	*	*		.09	.09	*			
PUEHU RIDGE 1040	A	.76														.34	.15	.27															*		
PUMI 1013	A	3.54	.01	.01	.03			.05	.06	.06	.04	.01	*	*	.32	.05	1.01	.60	.01	*	*	.29		.03	.21	.42	*	*		.07	.25	.02	*		
R-25 ERRIER 6 1004	A	4.03	.04	.05	.03			.19	.14	.11	.06	.04	*	*	.31	.04	.95	.26	.18	*	.32		.06	.25	.44	*	*		.12	.47	*	*			
WAIHAKA 930	A	1.70	T	T	.01			T	.01	.03	T	.03	*	*	.01	T	.64	.41	.03	*		.16		.02	.02	.30	*	*		.01	.02	*			
WAIHAKA MOUNTAIN 990	A	5.75	*	*	*									*	*																	5.75	*		
WAIHAI LOWER 1054	A	3.48	.03	.04	.03	.03	.08	.21	.10	.36	.13	.11	.05	.25	.04	.47	.28	.05	.09	.35		.03	.10	.01	.22	.14			.05	.23	*	*			
WAIHAI UPPER 1052	A	4.42	.30	.01	.03	.05	.05	.03	*	.10	.65	.27	.17	*	.27	.08	.45	.35	.15	.25	.20	.05		.13	.10	.31	.10	.15		.20	*	*			
WAIHAKA 943	A	1.09												*		.24	.47	.38															*		
WAILUA KAI 1065	A	3.49						.10		.05	.04	*	*	*	.14	.06	1.71	.78		*	.15		.07		.29	*	*		.05	.05	*	*			
WAIHAKA 947	A	.70												*		.18	.34	.18															*		
WEST LAWA 931	A	1.70	.01	.03	.07			T	.03	.01	.01			T		.44	.24	.01	*	*	.34	T	.03	.04	.35	*	*		.03	.06	*	*			
ISLAND OF OAHU																																			
BERETANIA PUMPING STA	A	4.22	.07	T	*		.01	.02	T	.06	.01				4.10	*	.01							T	.01								*		
CAMP 84 807	A	2.20						.10								.185	.17																*		
CHURCH COLLEGE LAIE	A	2.97	T	.02				.02		.16	.16	.01			.70	1.38									.02	.46		.04					*		
COCONUT ISLAND 840.1	A	1.73	.01				.02	.02	.02	.02					.02	.95	.36			.01				.07		.06	.01		.01	.16	*	*			
EWA PLANTATION 741	A	1.89					.03								.34	1.32	.17																*		
HELEMANO INTAKE 881	A	2.95	*	*	*	.09	*	.16	*	*	*	*	*	.37	*	*	2.60			*	*	*	*	*	*	*	*	*		.10	*	*			
HOKULOA 725.2	A	4.45	*	*	*	*	*												3.70	*	*	*	*	*	*	*	*	*		.38	*	*			
HONOLULU OBSERV 702.2	A	2.16	T	T	T	T	T	.01	T	T					.33	1.55	.21			T			T												

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See reference notes following Station Index

DAILY PRECIPITATION

Continued

HAWAII
JUNE 1971

Station		Total	Day of Month																															JUNE 1971	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KIPA 89.2	A	4.63																																	
KOHALA MAULILI 176	A	1.50																																	
KOHALA MISSION 175.1	A	1.33	.01	.32	.36	.17	.01	.41	.58	.07	.49	.08	.64	T																					
KOIAWE LOWER 196	A	3.53	.01	.02	.26	T	.16		.12	.04	.03	.20	.15	.02		.11	.02				.02	.11	.03			.26	.05	.28	.40	T	.31	.04			
KONA (KAILUA) 68.3	A	.53				1.58							1.42								.08							.45	.14	.04	.01				
						.02										.18	.03				.03					.05	.05			.03	.03	.03			
KONA VILLAGE 93.6		.16			.04									.04	.08																				
KUKAIUA 222		.48		.05				.10	.01	.10			.15								.02														
KUKUIHALE HIC 159		.86		.06	.07			.02	.05	.02	.01		.31				.05				.06														
KUKUIHALE MILL 206	A	.40			.07			.02	.01			.01	.16								.06														
KULANI CAMP 79		.78	.01	.14	.10		.07	.03	.07	.11	.02	.08				.06	.06				.02					.01									
KULANI MAUKA 76	A	.03																																	
KULANI SCHOOL SITE 78	A	.70	.12										.40																		.03				
LANIHOU 68.2	A	1.85											.11	.17		.38					.12														
MAKAMALAU 103	A	.00																									.12	.22	.06	.05	.18	.10	.32		
MANUKA 2	A	T																													T				
MAUNA KEA BEACH 98																																			
MAUNA LOA SLOPE OPS		.33	.20	.01																															
MIDDLE MOULALO 68.1	A	1.57		.20												.46															.11	.01			
MIDDLE PEN 147.1	A	.00																													.45				
MOAULA 18	A	.42																																	
MOUNTAIN VIEW 91		4.61	.18	.43	.19	.02	.17	.40	.34	.46	.30	.52			.02			.05		.20	.02	.02				.12	.09	.40	.39	.07	.10	.12			
NAALEHU 14	A	.21		.05	T											T			.06																
NAPPOPOO 28	A	.84														.17																			
NAULU FOREST 38.6	A	.79	.02	.01	.23				.16	.06		.05	.10																		.12	.02	.06		
NIULI 179																																.10			
ODKALA 223		.93	.12	.01			.06	.08	.11	.05	.10	.17	T							.01							.08	.01	.06	.03	.04	T			
OPHIHALE 2 24.1		1.36			T			T	.01			.01	.29	T				.05	T																
ORCHIO LANO EST 91.5	A	3.98				1.21						2.14								.03	.40	.03	.08	T	.05	.04	T	.04	T	.08	.03	.09	.13		
PAAUHAU 217		.27						.01			.01		.21																						
PAAULO 221		.26	.01				.04	.02	.06	T	T	.10									.01							.01		.01	.02	.01			
PAHALA 21	A	.19																																	
PAHDA 65	A	5.99	.09	.33	.45	.18	.03	.22	.58	.62	.91	.33	.43		.19			.09	.10	.40	.05	.02				.09	.14	.32	.31	.06	.05	.14	.05		
PAKAO 37	A	.95																																	
PAPAIAKU 144.1	A	3.98	.10	.21	.15	.01	.06	.39	.27	.75	.20	.17	.01								.04	.01	.07		.06	.05	.14	.35	.05	.29					
PAPAIAKU MAUKA 140.1	A	5.08	.32	.46	.14	.03	.30	.50	.24	.76	.08	.57	.01	T	.01		.05			.16	.03	.01	T		.17	.21	.26	.42	.01	.26	.08				
PEPEKOE MAKAI 144		3.47	.06	.25	.36	.02	.02	.17	.58	.30	.68	.07	.19							.09		.03				.11		.10	.29	.01	.10	.04			
PIIKOHA 89	A	6.00																																	
POHAKULOA 107	A	.09						.09																											
PUAKO 95.1	A	T																																	
PUU KIH 120	A	.00																																	
PUU LAU 102.1	A	.23																																	
PUU LEMUA 73	A	.70																															.23		
PUU MALI 113	A	.10																															.70		
PUU OI 82	A	.70			.05			.03	.09	.08	T	.13			.07	.06	T		.02		.06	T											.10		
PUU WAWAA 94.1	A	.04				.04																													
SAOOLE ROAD 1 84	A	3.44				1.01																						.43							
SOUTH POINT CORRAL 3	A	.04																																	
UWIKOA 118		.17											.08								.02	.02											.04		
UPOLU POINT USCG 159.2		.94			.10			.05	.26	.06	.05	.06	T									.04	.01												
WAIKAEA SCO 88.2	A	4.34	.22	.73	.11		.40	.42	.12	.61	.06	.69				.01		T		.07					.03		.14	.41	.35	.09	.02				
WAIKAEA KOMALA		.40	T	.05	.01		.01	.03	T	.02		.09	T		.14	T					T	T	T	T		T		.05	T	T					

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation								Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
							150TH MERIDIAN													
							02	08	14	20										
HILO WSD 87	10	1.1	6.1	19	E	16	87	76	63	80	6	8	9	1	0	0	24	43	7.2	
HONOLULU WSFO 703	5	12.7	14.8	31	NE	05	70	66	54	66	11	2	1	0	0	1	15	76	5.6	
KAHULUI WSD 398	5	12.6	15.0	31	E	08	81	66	52	73	10	1	1	0	0	0	12	84	4.4	
LIHUE WSD 1020.1	6	10.0	11.7	25	E	09	77	73	65	76	11	11	1	1	1	0	25	61	6.4	

DAILY TEMPERATURES

HAWAII
JUNE 1971

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	73 50	72 49	73 44	74 47	72 49	71 57	73 56	72 54	69 56	73 55	73 53	75 57	75 48	72 45	70 52	68 54	72 56	73 50	62 56	62 56	73 57	72 55	71 57	74 56	72 55	74 53	75 54	73 55	75 50	74 49	71.9 52.8	
KILAUEA POINT 1133	MAX MIN	79 72	80 71	79 72	81 73	79 72	81 70	80 73	80 71	80 72	80 69	80 73	81 72	80 70	78 67	80 72	81 69	79 70	79 69	82 69	79 69	79 72	80 69	79 73	80 69	79 70	81 70	78 71	80 71	82 71	79.8 70.7		
LIMUE WSO 1020.1	MAX MIN	84 74	84 74	83 68	84 76	84 73	83 75	84 75	83 73	84 74	85 75	84 74	81 71	83 70	84 68	81 68	81 69	83 75	84 76	83 75	83 75	83 75	84 75	83 75	84 75	83 75	84 74	83 74	82 73	83 71	83.3 72.5		
MAKAHUEA POINT 940.1	MAX MIN	82 71	81 69	84 71	85 68	82 75	84 68	83 75	80 73	83 74	80 65	84 73	84 68	82 69	85 68	87 71	89 67	79 72	86 70	83 69	83 69	83 71	83 69	80 71	83 69	78 75	83 71	82 69	85 73	82 70	85 69	83.0 70.2	
HANA 1026	MAX MIN	86 65	87 64	87 64	88 63	87 64	88 65	88 66	87 66	86 66	87 64	88 67	88 69	87 66	86 65	88 67	89 65	88 70	87 69	89 66	88 66	88 66	87 65	87 70	86 70	86 65	85 68	86 67	87 66	89 67	87 68	86.9 66.3	
NIU RIODE 1035	MAX MIN	80 61	81 63	82 63	80 63	82 60	80 60	81 61	82 62	81 63	82 63	83 64	81 60	81 61	82 62	80 60	80 60	79 59	80 63	82 62	80 62	81 63	81 64	80 64	81 64	82 62	81 62	82 63	81 61	80 60	82 61	81.0 61.8	
WAIAMI LOWER 1054	MAX MIN	79 65	79 65	80 65	83 65	83 64	81 64	81 64	80 66	79 66	80 64	82 64	82 66	82 64	80 59	79 60	78 64	80 65	80 67	80 65	79 66	80 67	80 69	80 66	80 67	80 67	81 67	81 68	81 69	78 63	83 60	80.4 64.9	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	84 67	84 67	83 62	85 65	85 65	84 68	83 66	84 68	83 68	83 70	83 65	84 66	85 61	84 68	80 64	80 65	85 67	83 66	84 67	83 66	84 67	85 65	84 72	85 68	84 65	85 65	84 67	85 65	84 67	83.7 66.2		
HONOLULU WSO 703	MAX MIN	84 72	83 70	84 67	83 71	83 72	82 72	83 70	82 72	83 72	83 73	84 72	84 72	85 70	82 67	79 67	82 65	86 69	85 73	83 72	84 73	83 73	83 72	84 72	83 70	84 72	84 72	84 74	85 72	86 71	84 72	83.5 71.0	
HONOLULU SUBSTA 704	MAX MIN	80 73	79 71	80 70	80 72	80 72	79 71	80 73	81 73	80 73	80 72	80 72	82 72	81 70	78 69	77 66	80 65	83 72	82 73	81 73	80 73	80 73	81 73	81 71	81 74	81 73	81 74	80 74	81 73	82 73	82 71	80.4 71.7	
KAHUKU 912	MAX MIN	81 72	82 70	81 72	82 72	82 72	82 71	82 69	82 71	81 71	82 71	81 72	82 71	81 66	82 66	82 64	82 62	80 62	80 64	82 70	82 71	81 73	81 73	82 73	82 73	81 73	82 73	82 73	81 73	83 73	83 70	81.9 70.1	
KANEONE MAUKA 781	MAX MIN	80 71	82 67	79 69	80 67	80 69	80 69	79 67	81 72	80 73	80 69	81 73	81 68	83 68	83 66	83 67	79 64	81 68	82 71	82 63	82 69	82 71	81 70	82 69	81 72	81 70	82 73	81 73	81 73	81 71	83 71	81.1 69.4	
LUALUALEI 804	MAX MIN	86 70	85 71	85 64	84 71	84 74	83 72	85 72	85 72	84 74	84 73	84 72	86 70	86 65	79 67	81 68	86 72	84 65	82 73	85 72	85 72	84 72	85 72	84 72	85 72	84 72	85 74	84 74	85 74	84 68	81 66	83.9 70.8	
MAKAPUU POINT 724	MAX MIN	76 71	75 68	77 67	78 67	76 68	76 63	76 66	75 67	75 68	76 66	76 64	78 64	78 60	80 69	80 69	79 68	78 69	78 69	78 69	78 69	78 69	78 69	78 69	78 69	78 69	78 69	78 69	78 69	78 69	78 69	77.6 68.7	
OPAELA 870	MAX MIN	78 66	78 65	79 61	81 62	80 63	78 66	77 65	79 65	78 66	76 66	78 64	81 64	80 62	85 61	83 60	77 62	73 63	81 63	79 65	78 65	79 65	80 66	79 66	80 66	78 68	76 66	80 67	81 65	82 64	81 65	79.2 64.4	
PRI WAIHAWA 820.2	MAX MIN	83 63	82 66	82 58	85 61	82 65	82 68	83 65	82 66	82 67	82 67	82 65	82 65	85 61	86 59	82 61	80 62	78 62	84 65	82 65	80 65	83 65	83 64	83 64	82 67	82 65	83 65	83 67	83 70	84 65	84 62	82.8 64.5	
WAILUA 847	MAX MIN	84 64	84 64	84 59	85 61	83 62	82 64	82 63	83 64	82 64	82 63	82 62	84 63	84 62	86 65	83 66	83 64	85 66	82 67	83 63	83 63	83 63	84 62	84 65	85 66	83 64	83 64	84 64	83 64	86 60	88 60	83.8 64.3	
WAIKIKI 717.2	MAX MIN	84 72	85 71	84 66	84 71	84 72	85 72	84 71	85 71	84 70	84 71	84 70	85 71	85 70	86 65	85 67	82 69	85 73	85 67	85 72	85 71	84 71	84 73	84 71	84 71	85 72	85 72	85 73	85 69	85 67	86 64	84.4 70.5	
WAIMANALO EXP FARM	MAX MIN	82 71	82 69	80 70	80 71	79 70	80 71	82 69	83 71	82 71	82 70	83 71	83 71	85 70	83 64	85 66	81 67	83 67	83 72	83 70	83 71	83 71	83 72	83 72	82 71	82 72	82 72	81 72	81 72	83 70	82.0 70.2		
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	80 70	82 70	81 70	80 70	80 72	82 70	81 70	80 70	80 70	80 70	81 70	83 74	78 68	78 68	78 69	82 69	84 69	79 70	82 72	80 69	81 69	81 71	82 69	82 69	83 68	83 74	83 68	82 68	82 64	81.0 69.7		
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN	75 62	76 63	74 61	79 60	77 61	74 62	75 64	76 65	77 62	76 65	78 64	77 64	77 62	78 63	73 64	80 63	78 63	75 66	79 66	76 63	75 65	76 66	80 66	79 65	77 64	78 65	77 66	77 65	78 62	76.8 63.7		
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	65 51	67 48	66 44	65 48	69 52	67 52	67 45	67 52	65 49	65 51	68 44	67 44	67 48	62 42	63 44	62 42	64 49	70 54	69 52	68 47	67 53	68 53	68 54	68 48	69 49	73 55	71 50	66 47	64 42	63 47	66.7 48.5	
HALEAKALA SUMMIT 338.4	MAX MIN	57 36	56 40	57 40	60 41	60 42	57 44	60 42	57 46	54 36	54 42	59 44	55 40	53 42	62 42	64 44	58 35	54 39	60 42	61 44	56 43	63 42	58 43	58 45	56 40	59 44	55 42	54 39	56 36	54 38	52 39	57.5 41.0	
HANA AIRPORT 355	MAX MIN	82 67	83 67	82 66	83 67	81 67	82 68	82 67	79 65	82 68	82 66	82 63	84 63	84 65	86 66	86 63	85 73	85 67	84 67	83 68	84 68	85 65	85 67	84 68	86 67	83 69	83 69	84 64	85 66	86 64	83.9 66.4		
KAANAPALI AIRPORT	MAX MIN	84 69	83 66	84 65	81 63	84 65	82 65	83 64	82 71	83 63	82 68	84 63	84 63	83 63	81 70	82 68	84 67	82 70	83 68	83 65	83 65	83 67	83 67	85 64	83 66	83 67	83 66	84 66	84 62	82 65	83.0 65.8		
KAHULUI WSO 398	MAX MIN	86 70	86 67	87 63	85 65	84 67	85 70	86 69	85 69	86 69	86 67	87 66	85 62	82 62	82 62	86 69	86 67	89 69	86 72	87 70	86 71	88 72											

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1971

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
LAHAINA 361	MAX MIN	87 67	86 69	87 66	84 65	86 65	87 65	87 67	85 65	86 66	88 68	86 65	87 65	86 65	86 72	84 69	84 68	87 67	87 68	87 67	87 67	87 67	87 69	87 69	87 69	87 68	87 68	87 68	89 68	85 65	85 65	86.3 67.0	
WAILUKU 386	MAX MIN	82 69	80 69	79 69	80 68			80 69	80 70	80 69	81 69	80 69		81 66	80 66	81 68	87 69	82 70		81 69	81 70	80 71	82 71	82 71	83 70	81 72		82 70	81 68	81 69	81.1 69.1		
ISLAND OF HAWAII																																	
HAINA 214	MAX MIN	79 67	81 66	79 65	81 65	81 68	79 67	79 65	80 66	79 65	79 65	78 67	81 63	81 62	80 62	82 65	82 68	83 67	80 67	81 67	82 69	82 67	82 66	81 66	82 66	81 66	81 66	81 65	83 61	82 66	80.8 65.8		
HAWAII VOLCNS NP HO 54	MAX MIN	69 53	68 54	63 56	65 55	67 52	69 52	65 52	67 53	67 53	67 50	67 49	68 54	68 53	70 53	72 52	70 54	69 52	62 53	69 52	62 53	69 53	69 53	70 53	73 55	66 54	70 54	71 54	72 54	68.3 53.0			
HILO WSO 87	MAX MIN	83 66	80 66	80 67	82 63	81 64	81 67	82 67	82 67	81 67	79 67	81 65	83 65	84 66	86 65	87 65	86 71	82 69	84 66	84 68	86 66	86 66	86 69	84 84	81 83	83 83	86 86	87 86	87 86	86 87	83.1 66.8		
KAINALIU 73.2	MAX MIN	77 62	77 64	77 63	78 68	75 61	78 62	77 60	77 61	78 61	75 62	78 62	75 61	73 63	76 62	79 61	81 63	78 67	77 64	75 63	76 64	75 63	78 64	76 63	75 64	78 63	76 64	73 63	77 61	74 59	77 60	76.6 62.3	
KAMUELA 192.2	MAX MIN	70 56	71 58	67 54	73 56	70 54	71 55	69 56	70 56	71 57	70 56	65 57	70 56	71 49	74 52	74 54	75 52	78 55	72 56	74 55	71 56	74 57	72 56	72 57	70 56	72 57	70 57	72 58	71 58	74 58	75 56	71.6 55.6	
KEAAU 92	MAX MIN	80 66	79 66	78 66	79 65	78 64	78 64	78 65	80 63	79 64	78 65	78 64	80 64	81 64	86 64	83 64	81 68	79 66	80 62	82 65	81 64	82 66	82 66	82 66	81 66	82 66	82 65	81 66	79 63	80 64	80 66	79.9 64.9	
KEALAKEKUA 26.2	MAX MIN	76 62	76 63	77 64	78 63	77 62	79 63	77 61	78 60	78 60	77 62	78 63	76 62	75 61	77 60	79 62	80 63	78 67	74 64	75 63	76 65	76 64	76 65	74 66	76 65	74 63	76 63	77 64	79 64	77 60	78 60	76.8 62.7	
KOHALA MISSION 175.1	MAX MIN	79 66	79 66	77 66	79 67	79 68	78 62	78 66	79 66	79 66	79 66	75 65	79 66	79 63	80 65	79 66	85 67	84 67	81 68	80 67	81 62	80 67	81 68	81 67	82 67	81 68	80 69	80 68	81 66	82 65	83 66	80.0 66.4	
KONA (KAILUA) 68.3	MAX MIN	84 71	82 70	87 71	85 																												
KULANI CAMP 79	MAX MIN	68 48	63 29	63 49	61 43	51 42	62 42	63 48	54 47	63 48	62 47	54 43	63 43	61 40	53 46	65 45	66 44	64 47	70 45	67 45	65 47	75 46	65 43	64 44	65 44	64 44	66 44	60 38	62 34	60 32	60 32	60 32	62.6 45.4
MAUNA LOA SLOPE D85	MAX MIN	51 32	48 29	54 32	56 37	60 42	60 42	58 38	62 41	60 38	59 38	56 39	55 39	59 38	56 38	56 39	59 38	59 39	59 41	61 41	63 43	59 42	60 43	57 38	51 34	52 34	56 33	49 32	48 32	48 32	56.6 37.8		
MOUNTAIN VIEW 91	MAX MIN	75 60	75 60	74 60	71 59	75 59	75 59	75 59	74 59	76 61	76 60	75 62	78 60	78 57	77 60	80 59	82 59	80 65	79 63	79 60	79 60	79 60	78 58	79 60	79 61	79 61	79 61	79 61	79 59	79 59	79 61	77.0 59.8	
NAALEHU 14	MAX MIN	78 68	78 67	76 67	74 66	79 65	79 65	79 66	78 66	78 67	79 66	76 65	77 66	77 65	77 62	79 62	80 68	77 63	77 63	78 63	79 65	79 64	79 69	79 69	79 69	79 67	79 67	79 64	79 64	79 66	77.9 65.1		
OOKALA 223	MAX MIN	79 66	80 64	78 64	60 65	80 65	82 66	80 64	78 64	80 64	78 64	75 64	79 65	78 65	81 65	81 65	80 66	82 66	81 66	82 66	82 66	80 66	80 67	82 66	80 66	82 66	81 66	80 66	82 64	81 66	81 66	80.0 65.1	
OPIHIHALE 2 24.1	MAX MIN	81 62	78 62	80 63	78 62	80 61	78 60	78 61	76 59	76 60	74 60	75 59	73 60	76 62	73 60	78 58	77 62	78 64	77 63	78 61	78 59	78 60	77 62	78 61	77 61	79 61	79 61	76 62	79 59	78 60	78 60	77.4 60.6	
PAHALA 21	MAX MIN	80 61	78 63	76 65	75 61			82 61	77 62	78 63	79 63			81 58	79 62	79 62	79 63				81 60	80 60	80 62	80 62	80 62	80 62	83 61	80 60	79 60	79 60	79.2 61.5		
PUAKO 95.1	MAX MIN	85 71	86 70	85 68	84 72	86 72	86 71	85 71	85 71	85 71	84 68	86 70	88 71	85 67	84 70	84 71	85 68	86 68	85 71	85 71	85 71	85 71	87 71	85 68	85 71	85 68	85 71	85 68	85 71	85 68	85 70	85.4 69.9	
UPOLU POINT USCG 159.2	MAX MIN	81 72	82 68	80 68	82 69	80 66	69	81 68	81 67	81 68	81 67	76 60	80 72	82 67	82 66	83 69	83 70	83 71	82 70	84 71	84 72	82 73	81 74	82 71	82 74	81 65	82 71	82 72	81 71	83 71	81 68	81.5 69.3	
WAIHEA KOHALA	MAX MIN	73 58	73 57	69 54	75 56	74 54	69 56	72 55	73 56	73 57	71 55	72 54	73 54	72 46	75 56	73 54	76 51	72 55	74 56	74 57	74 57	73 54	74 55	73 54	72 54	72 60	72 58	74 53	75 54	76 50	76 50	73.1 54.6	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *	ISLAND OF KAUAI																																
LIIHUE WSO 1020.1	EVAP	-	-	.15	.36	.44	.39	.42	.50	.36	.39	.52	.37	.38	.33	.21	-	.14	.39	.48	.21	.43	.28	.30	.28	.27	.40	.28	=	=	.83	10.128	
	WIND	105	210	129	146	199	231	220	218	237	268	233	141	113	74	64	37	60	141	-	-	-	119	142	132	183	189	188	155	7	10	439.08	
	MAX	85	84	85	86	86	81	82	84	83	81	82	84	87	87	83	78	88	85	83	84	84	85	84	86	85	84	85	84	85	84	89	
	MIN	63	63	61	61	62	63	63	63	63	63	62	63	64	64	59	60	62	63	64	64	64	63	63	64	64	63	64	65	64	63	62	
* * *	ISLAND OF OAHU																																
HONOLULU OBSERV 702.2	EVAP	.33	.30	.30	.25	.30	.40	.25	.34	.36	.36	.37	.40	.35	.29	.27	.15	.14	.24	.30	.30	.30	.30	.33	.30	.27	.30	.30	.30	.22	.25	8.87	
	WIND	31	37	32	33	41	55	47	44	56	58	47	33	30	29	46	41	32	30	47	28	39	41	41	43	36	50	42	28	21	33	1191	
	MAX	90	91	90	87	90	91	85	92	90	89	90	92	91	90	91	84	83	90	90	89	92	92	91	92	89	91	91	90	92	89	89.8	
	MIN	64	66	63	65	66	65	65	65	65	65	64	65	65	65	67	65	66	67	66	67	66	65	67	68	65	65	68	66	67	65	65.5	

See Reference Notes Following Station Index

DAILY PRECIPITATION

HAWAII
LATE REPORTS

Station	Total	Day of Month																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
• • • JANUARY 1971																																
MOUNT WAIALEALE 1047	30.73	.55			.87	1.93	.71		1.06	.39	.39	1.10	.28	.31	1.69	1.69	.43	.04			.83	1.65	1.06	.04			2.36	4.92	.79	.04	7.60	
• • • FEBRUARY 1971																																
MOUNT WAIALEALE 1047	12.81	.16	.43	.24	.12	.08	.04								.24	1.22			.12	2.20	.35	.24	.59	2.09	3.07	.20		.16	1.26			

CORRECTIONS

DATE	TABLE	STATION	CORRECTIONS
	ISLAND OF MAUI		
MAY 1971	DAILY PRECIPITATION	PUOHOKAMOA 2343	TOTAL 69.40, 12TH 55.60
	ISLAND OF HAWAII		
ANNUAL SUMMARY 1970	TOTAL PRECIPITATION & DEPARTURES FROM NORMAL	DIVISION	DELETE ANNUAL PRECIPITATION DEPARTURE

STATION INDEX

HAWAII
JUNE 1971

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL										TEMP	PRECIP	EVAP	SPECIAL	
ISLAND OF LANAI																									
ALEXANDER RESV. 983	A 0140	02	KOOLA	21 21 57	159 32	1610						MCBRIDE SUGAR CO.	KAMUAIAPU HARBOUR 558 A	A 3461	02	LAHAINA	1 20 47	157 00	30	74	84				DOLE COMPANY
ANAHOLA 1151	A 0145	01	KAMAHUA	22 08 18	159 28	1880						LIME PLANTATION CO.	LANAI CITY 672	A 5288	01	LAHAINA	1 20 50	156 55	1620	70	74	74			DOLE COMPANY
KAHOOLA 1000	A 0146	02	KOOLA	22 09 22	159 28	1880						MC BRIDE SUG CO LTD	LAHAINA 684	A 5301	02	LAHAINA	1 20 52	156 55	1620	70	74	74			DOLE COMPANY
EAST LANAI 934	A 0450	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
KAPPA STABLES 1104	A 0451	02	KOOLA	21 55 19	159 40	1470						LIME PLANTATION	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 935	A 0452	02	KOOLA	21 55 19	159 40	1470						MC BRIDE SUG CO LTD	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0453	02	KOOLA	21 55 19	159 40	1470						LIME PLTN CO LTD	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0454	02	KOOLA	21 55 19	159 40	1470						GRAND MANU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0455	02	KOOLA	21 55 19	159 40	1470						LIME PLTN CO LTD	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0456	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0457	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0458	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0459	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0460	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0461	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0462	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0463	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0464	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0465	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0466	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0467	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0468	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0469	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0470	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0471	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0472	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0473	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0474	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0475	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0476	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0477	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0478	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0479	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0480	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0481	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0482	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0483	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0484	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0485	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0486	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0487	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0488	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0489	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0490	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0491	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0492	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0493	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0494	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0495	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0496	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0497	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0498	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0499	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0500	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0501	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0502	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0503	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0504	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0505	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0506	02	KOOLA	21 55 19	159 40	1470						KU	HALEAKALA 678	A 5704	01	LAHAINA	1 20 52	156 55	1430						DOLE COMPANY
LAHAINA 1110	A 0507																								

STATION INDEX

HAWAII
JUNE 1971

JUNE 1971												
STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII:												
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	BA	BA			PUNA SUGAR CO.
MALEHU 14	6588	03	KAU	3	19 04	155 35	673	BA	BA			HUTCHINSON SUGAR CO.
NAROPUD 28	6697	04	S. KONA	4	19 28	155 55	395	7A				KONA EXPERIMENT STA.
NAUHU FOREST 38.8	6731	02	PUNA	2	19 19	155 08	1400	VAR				HAWAII VOLCANOES NAT. PK.
NTULU 179	6804	01	N. KONA	2	20 14	155 45	75	BA				KONA SUGAR CO.
OHALA 223	7131	02	N. HILO	2	20 01	155 17	450	7A				LAUPAHEHE SUGAR CO.
OPIMAHUA 2 24.1	7186	04	S. KONA	4	19 18	155 33	1270	7A				HISS C. LEONARD
ORCHID LAND EST 91.5	7185	02	PUNA	1	19 34	155 00	445	VAR				BOARD OF WATER SUPPLY
PAUHAU 217	7204	01	HAWAIIA	1	20 05	155 26	415	7A				PAUHAU SUGAR CO.
PAUHAU 221	7312	01	HAWAIIA	1	20 03	155 22	800	7A				HAWAIIA HILL CO.
PAHOLA 21	7421	02	KAU	3	19 12	155 29	870	BA	BA			HAWAIIAN AGG. CO.
PAHOLA 65	7457	02	PUNA	2	19 30	154 57	870	BA	BA			PUNA SUGAR COMPANY
PAHOLA 37	7643	03	KAU	3	19 22	155 28	5000					HAWAIIAN RANCH CO., INC.
PAHOLA 144.1	7711	02	S. HILO	2	19 47	155 08	200	7A				MAUNA KEA SUGAR CO.
PAHOLA 140.1	7721	02	S. HILO	2	19 47	155 08	1270	7A				MAUNA KEA SUGAR CO.
PEREPEKEO HAKAI 144	8000	02	S. HILO	2	19 51	155 05	100	7A				PEREPEKEO SUGAR CO.
PILIHONGA 89	8051	02	S. HILO	2	19 44	155 10	1730					STATE DIV. OF FORESTRY
POHAKULUA 107	8063	02	HAWAIIA	2	19 45	155 32	6511	VAR				STATE DIVISION OF PARKS
PUNO 95.1	8180	02	KOHALA	1	19 59	155 10	8	BA				ERWIN M. RAPP
PUNO KINE 120	8393	01	HAWAIIA	1	19 54	155 24	7750					KUKAIAU HILL CO.
PUNO LAU 102.1	8452	03	HAWAIIA	5	19 50	155 36	7440					STATE DIV. OF FISH-GAME
PUNO LEMUA 73	8460	04	N. KOHOLA	4	19 34	155 49	4880					GREENWELL RANCH
PUNO MALE 113	8515	01	HAWAIIA	1	19 55	155 28	6960					KUKAIAU RANCH CO.
PUNO DD 82	8553	02	S. HILO	2	19 44	155 23	6340	BA				DOON WINTERS
PUNO HAWAII 94.1	8555	03	N. KOHOLA	4	19 47	155 51	2520	7A				DILLINGHAM RANCH INC.
SADOLE ROAD 1 84	8574	02	S. HILO	2	19 42	155 12	2340					BOARD OF WTR. SUPPLY
SOUTH POINT CORRAL 3	8675	03	KAU	3	19 57	155 41	500					HAWAIIAN RANCH COMPANY
UMUKOA 114	8740	01	HAWAIIA	1	19 59	155 23	3420	7A				KUKAIAU RANCH CO.
UPULU POINT USCG 159.2	8833	01	N. KOHOLA	2	20 15	155 33	61	BA				U. S. COAST GUARD
WAIKAEA SCO 88.2	9025	02	S. HILO	2	19 40	155 08	1050	7A				SHINICHI KANEHIED

- 1 DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3850, Honolulu, Hawaii, or to any National Weather Service Office near you. Additional precipitation data are contained in "MONTHLY PRECIPITATION DATA HAWAII."

DIRECTIONAL UNITS: Unless otherwise indicated, directional units used in this bulletin are Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation", "Daily Temperature", and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: For all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.

No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates.

++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

• Amount included in following measurement, time distribution unknown.

A The letter "A" above following station name in "Climatological Data" table, "Daily Precipitation" table, and "Station Index"; indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

H Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

VI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

• Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

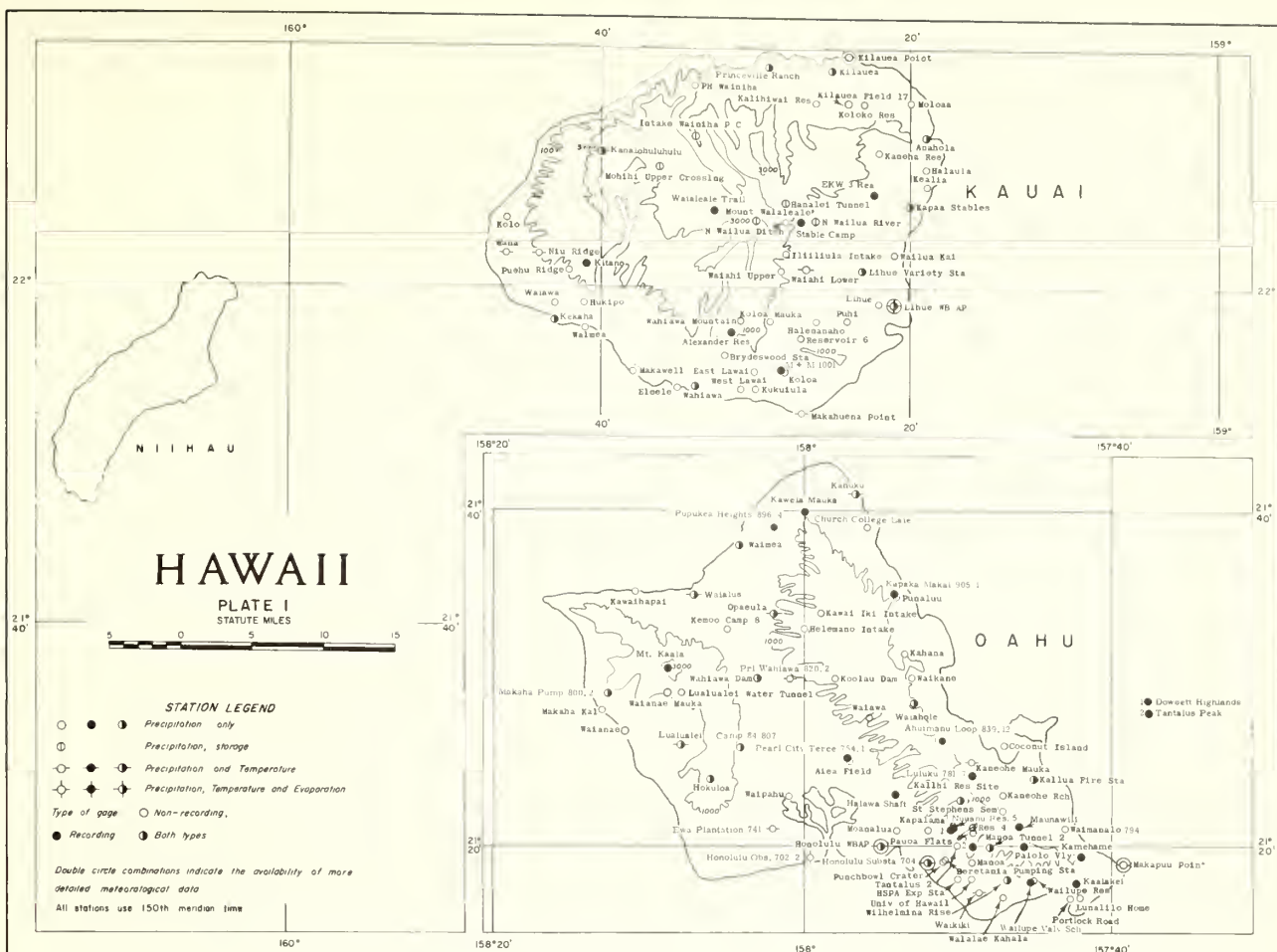
Information concerning the history of changes in locations, elevations, exposures, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center

USCOM-NOAA-ASHEVILLE-9/28/71-89D



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

[illegible]

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 81

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
JULY

1971

Station		Temperature											Precipitation											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
											Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											80° or Above	32° or Below	32° or Below	0° or Below										
KEAAU 92		80.6	66.3	73.5	- .9	83	30+	64	27+		0	0	0	0	5.54	- 4.60	1.08	30	.0	0		14	4	1
KEALAKEKUA 26.2	A	77.0	64.3	70.7		81	14	60	1		0	0	0	0	7.56		1.18	27	.0	0		16	4	3
KONA (KAILUA) 68.3		83.9M	70.6M	77.3M		85	28+	68	28+		0	0	0	0	3.02		.98	13	.0	0		7	3	0
KUKUIHAELE HIC 199		62.7	47.6	55.2		70	13	42	30+		0	0	0	0	3.26	- 2.28	2.02	30	.0	0		12	3	3
KULANI CAMP 79															7.92				.0	0				
PAHALA 21	A					87	13	60	27+		0	0	0	0	1.24	- .28			.0	0		0	0	0
POHAKULOA 107	A														.00		.00		.0	0		0	0	0
PUAKO 95.1	A	86.5	71.1	78.8		89	12+	66	19		0	0	0	0	.03		.02	30	.0	0		0	0	0
PUU WAAWAA 94.1	A														2.75	.65	2.18	15	.0	0		3	1	1
UMIKOA 118															3.08	.09	.98	30	.0	0		5	3	0
WAIKAE SCD 88.2															11.56		2.80	30	.0	0		17	6	4
ISLAND			71.0												4.37				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 91° ON THE 9+ AT 2 STATIONS

LOWEST TEMPERATURE: 31° ON THE 1ST AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 16.65 INCHES AT MOUNT WAIKAELE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 17 STATIONS

GREATEST ONE-DAY PRECIPITATION: 4.71 INCHES ON THE 15TH AT LANIHOU 68.2, HAWAII

SPECIAL WEATHER SUMMARY

In most of the State dry weather continued, with some areas reporting their fifth or sixth successive month of below-normal rainfall. Meanwhile, a succession of tropical storms approaching the islands from the east held out, at the same time, the hope of needed rain and the threat of destructive winds and floods.

DENISE, the first of these storms, formed in the warm waters off Central America, birthplace for many of the Eastern Pacific's tropical storms, and travelled westward toward Hawaii, covering 3,400 miles in 9 days. En route, she grew to a full-fledged hurricane, attaining maximum winds of 135 m.p.h. on the evening of the 8th, but then weakened rapidly, and at her closest approach to the State, 150 miles south of Hawaii Island on the 13th, was but a shadow of her former self. Nevertheless, DENISE's moisture-laden clouds reaching northward to Hawaii Island brought more than an inch of rain to the Hamakua District's parched pastures and sugar plantations, while in the Kailua-Kona area, flooding streams blocked Kuakini Highway, Alii Drive, and Middle Road and stranded motorists.

Tropical Storm ELEANOR came hard on the heels of DENISE, but never attained full hurricane strength before dying on the 11th, still some distance east of the islands.

In their life cycles and tracks, DENISE and ELEANOR closely resembled Hurricanes LORRAINE and MAGGIE, which had threatened Hawaii in August 1970, nearly a year earlier.

Beneficiaries of Hurricane DENISE, other than the farmers and ranchers of Hawaii Island, were Sheila Scott, a British aviatrix flying solo around the world, and Windward Passage, winner of the Transpacific Yacht Race -- both of whom, bound

from San Francisco to Honolulu, were helped on their way by the strong easterly winds along DENISE's northern fringe.

Except in the Anahola to Kealia coastal strip in eastern Kauai, the Launiupoko area in southwestern Maui, and parts of Hawaii Island, the month's rainfall was everywhere well below normal, with most gages on Oahu, Molokai, Lanai, and Maui reporting less than half, and many less than a quarter, of their July means. On Hawaii Island, despite DENISE's beneficial rains, and another inch or so which further improved pasture conditions in the Hamakua District on the 29th, monthly totals in the Kohala, Hamakua, and Hilo Districts were still below normal, and only a few gages in Kona, Kau, and at middle elevations on Mauna Loa exceeded their July average.

By month's end heavy supplementary feeding was still needed in Hamakua and, except for parts of North Kona, all other pasture areas in Hawaii Island were also in need of rain. In Maui's Upper Kula District, water storage facilities were almost empty, with little inflow from supply sources, and supplementary water was being pumped up from Lower Kula. The Kalae area of Molokai was in similar straits, with water being trucked in to the storage facilities.

Also worthy of note was the sighting from Ke-ahole Airport, North Kona, Hawaii Island, on the 30th, of 6 funnel clouds moving northward 10 to 15 miles to the west. The funnels, described as dark and rope-like, were accompanied by rain-showers and appeared to reach the ocean surface from cumulus clouds whose tops and ragged bases were estimated at 5,500 and 1,500 feet, respectively.

Stations With Less Rain in July 1971
than in Any Previous July

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Least July Total	July 1971
		(Inches)	(Inches)
KAUAI			
Ililiula Intake	37	8.00	7.93
OAHU			
Honolulu Substation (Federal Bldg.)	67	0.13	0.11
HSPA Experiment Station	54	0.63	0.32

SPECIAL WEATHER SUMMARY - Continued

Stations With Less Rain in July 1971
than in Any Previous July

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Least July Total	July 1971
OAHU - Continued		(Inches)	(Inches)
Kahuku	81	0.78	0.46
Kalihi Reservoir Site	44	2.70	2.24
Kapalama	50	1.35	0.50
Manoa Tunnel 2	44	5.07	3.08
Nuuanu Reservoir 4	67	3.66	2.42
Palolo Valley	44	4.55	2.86
Pauoa Flats	46	5.94	4.38
St. Stephen's Seminary	29	2.45	1.18
Waikane	56	4.52	3.95
MOLOKAI			
Maunaloa	45	0.25	0.04
HAWAII			
Hilo Airport	29	4.25	4.13

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HAWAII
JULY 1971

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HAHAI
JULY 1971

HAHAI
JULY 1971

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DAILY PRECIPITATION

Continued

HAWAII
JULY 1971

Station		Total	Day of Month																																					
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
KAWAINUI LOWER 193	A	11.48	*	1.20	*					1.07							5.42			*	*				.85	*	*					2.94	*	*						
KEALAKEKUA 26.2	A	3.54				.05	.06	.23	.18	.53	.13	.02	.26	.03	.65	.67	.25	.04	.17	.01		.05	.02	.05	.23	.05	.33	*	.01	.14	.23	1.08	.07	*						
KEHENA 181.2	A	7.56	.96	.03	.01	.34	.37	.05	.46	.38	.12			.06			.23	.13	.46		.15	.04	.12	.05	.17	.04			1.08	1.18	.10	.02	*	*						
KIDOLAKA A C F 6	A	4.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
KIPA 89.2	A	13.17		.26		.04	.02	.30	.44	.93	.21	.02	1.24	.07	1.60	2.30	.36	.05	.02	.01				.01	.04	.15	.01	.84	.02	.12	.10	3.23	.78	*						
KOHALA MAULILI 176	A	4.06						.10	.04	.14	.35			.23	.69	.51							.13	.04				.40	.01	.02				*						
KOHALA MISSION 175.1	A	3.73		.01			.02	.03	.04	.07	.26	.07	.11	.11	.66	.59					T	.08		.06	.03	.02	.27	T		.01	.09	1.12	.08	*						
KOIAHE LOWER 196	A	8.47		.54	*					.88	*	*	*	*			4.60	*	*						.40	*						2.05	*	*						
KONA (KAIALA) 68.3	A	3.02				1.24	.05	.10		.15	*	*	*	.07		.89	.01				.03			.06	.05	*		.06		.22	.09		*							
KONA VILLAGE 93.8	A	.22			.05							.07			.08	.02																	*	*						
KUKAIUA 222	A	4.21					.04	.02	.37	.08			.04	.04	.63	1.20							.02				.16		.02	T	1.33	.26	*	*						
KUKUIHALE MIC 199	A	3.28					.02	.03	.10	.05			.04	.14	.98	.78											.31				.61	.20	*	*						
KUKUIHALE MILL 206	A	1.84					.03	.04	.05				.15	.30	.35																		*	*						
KULANI CAMP 79	A	7.92		.06	.14	.08	.03	.03	.09	.48	.12	.10	.14		2.00	1.44	.02		.02	.02			.02	.10	.01	.10	.08	.02	.30	.01	.49	.20	*	*						
KULANI MAUKA 76	A	4.60						.02	.12	.02			.82	*	1.12	1.83	T											.09		.40	1.00		*	*						
KULANI SCHOOL SITE 78	A	7.65			.11													3.75	*	*	*	*			.12	*							2.85	*	*					
LANIHAU 68.2	A	11.75	.12	.07		.60	.38	.23	.09	.04	.23					4.71	.48	.54	.62	.06	*					.73		.64	.39	1.24	.44			*	*					
MAHALAU 103	A	.29														.10	.471	.19																*	*					
MAHUKA 2	A	2.40														.10	.50	*	*	*	.20													*	*					
MAUNA LOA SLOPE DBS	A	1.40					.70	*	*	*	.29	.11	.21	.33	.69	.02	.01															.03		*	*					
MILOLE HOUALUA 68.1	A	3.54	*	*	*						.29						1.15				1.05	*	*	.35	*	*	*	*	*	*	*				*	*				
MILOLE PEN 147.1	A	.00	*	*	*																															*	*			
MOAULA 18	A	1.04	*	*	*																															1.04	*	*		
MOUNTAIN VIEW 91	A	10.34	.01			.06	.08	.28	.21	.93	.13	.05	.68	.08	1.59	1.88	.32	.10	.05				.04	.04	.10	.19	.09	.54		.24	.29	2.19	.17		*	*				
NAALEHU 14	A	1.63	.02	T						.36	T			.83	T	.40	.08	.10	*				.53	T					.01	.11	T	.92			*	*				
NAPPOPOD 28	A	3.90				1.09	*	*	*	*	*	*	*	*	*	*	*	*			1.39	*	*	*	*	*	*	*	.59						*	*				
NAULU FOREST 38.6	A	2.86						.04	.03	.19	*			.15	.38	.71						.01	.05		.05	.01	*		.20		.04	1.00		*	*					
NTULI 179	A	2.86																																	*	*				
OKALA 223	A	4.76				T	T	.07	.03	.32	.23	T	.15	.03	.48	1.17	T	.04						.05	T		.45	.01	.07	.05	1.41	.20		*	*					
OPIMAHLE 2 24.1	A	3.17	.08	.02	.33	T	T	.12	T	.10	T				.48	1.54	T	.15	.10	.04			.08	T	.04	T		.43			T	T			*	*				
ORCHIO LANO EST 91.5	A	6.70		.76	*					.98	*						.26	2.35	.19		.04	*													*	*				
PAAHU 217	A	2.69						.01	.09			.01	.08	.90	.59																				*	*				
PAUUILO 221	A	3.56				.02	.01	.33	.04			.02	.05	.63	1.09	T							T				.07	.11		T	.01	1.04	.21		*	*				
PAHALA 21	A	1.24	.04							.03					.03	.05	.13	.10	*		.46	*											.35	.05		*	*			
PAHDA 65	A	7.57		.09		.08	.11	.38	.27	.47	.45	.02	.27	.04	1.17	.77	.23	.07	.16	.01		.06		.14	.20	.09	.62	*	.09	.08	.73	.85	.12		*	*				
PAPAIDOU 144.1	A	7.53			.01	T	.06	.22	.53	.64	.19	.05	.36	.07	.65	.85	.24	.17	.08	.01			.03	.10	.20	.16	.55	.73	.09	.39	.14	1.70	.04		1.91	*	*			
PAPAIDOU MAUKA 140.1	A	10.90	.02	.04		.01	.08	.36	.40	1.09	.11	.07	.85	.09	1.36	2.18	.22	.09	.12	.02	T		.03	.05	.02	.27	.63	.86	.01	.01	.26	.28	1.78	.54		*	*			
PEPEKEO MAKAI 144	A	5.21	.16	.01		.01	.19	.20	.34	.22	.21	.01	.36	.03	.81	.19	.05	.06	.12	.02	.01	.09	.08	.03	.22	.03	.26	.05	.01	.49	.10	.78	.10		*	*				
PIIHONUA 89	A	18.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
POHAKULUA 107	A	.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
PUAKO 95.1	A	.03	*	*	*	T	.01	*	*	*	*	T	*	*	T	T	T	T	T	*	*	*	*	*	*	*	*	*	*	T	T	.02			*	*				
PUU KIHIE 120	A	3.33	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.33	*	*		
PUU LAAU 102.1	A	1.25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.25	*	*		
PUU LEHUA 73	A	2.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.60	*	*		
PUU MALI 113	A	.65	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.65	*	*		
PUU OO 82	A	7.18		.04	.18	.07	T	.02	.07	.22	.08			.07	1.30	1.13	T	T															.46	.12	2.63	.63	*	*		
PUU WAHAA 94.1	A	2.75				.12			.04						.24	2.18	.08	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.09	T	T	.46	.12	2.63	.63	*	*
SAOULE ROAD 1 84	A	15.37	*	.58	*				*	*	2.85			.12	*	*	6.40	*	.26	*	*	*	*	*	*	*	*	*	*	*	*	5.00	*			.50	*	*		
SOUTH POINT CORRAL 3	A	1.08	*	.08	*				.02	.01	.18	.05		.02	.57	.71	.02	.04	.04				*	*	*	*	*	*	*	*	*	.43	.98			.43	*	*		
UMIKOA 118	A	3.08					.02		.01	.18	.05			.02	.57	.71	.02	.04	.04				T	.07	.02	.01	.02	.22	T			.64	.10			.64	.10	*	*	
UPOLU POINT USCG 159.2	A	2.03				.03			.03	.05	.23	.02	.01	.08	.19	.36																						*	*	
WAIKAEA SCO 88.2	A	11.56		.10	.07	.08	.43	.19	.51	.28				1.28	.00		1.45	1.86	.41	.05	.05	.1	.03	.13	T	.01	.02	.88	.13	.17	2.80	.24			.24	*	*			

DAILY TEMPERATURES

HAWAII
JULY 1971

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
HANALOHULU 1075	MAX MIN	73 55	68 51	70 48	73 54	72 54	72 58	70 58	71 57	70 55	73 55	72 60	71 58	72 58	71 55	72 55	74 51	73 48	75 45	75 51	73 51	73 51	73 51	75 54	74 57	75 55	74 46	73 46	74 49	76 49	74 49	76 57	72.9 52.8
KILAUEA POINT 1133	MAX MIN	80 73	80 72	81 72	81 71	81 73	80 71	81 70	80 69	77 71	80 69	80 72	79 70	81 71	80 73	80 71	81 71	81 73	81 71	81 73	81 71	81 73	80 72	81 71	81 72	81 73	82 72	80 73	81 72	80 72	81 73	80 73	80.4 71.7
LIHUE WSO 1020.1	MAX MIN	83 70	83 71	83 76	84 76	83 74	85 73	84 73	85 72	84 71	84 71	84 74	84 76	85 76	85 75	85 75	85 72	85 70	85 75	85 76	85 76	85 74	85 74	86 74	84 65	85 74	85 71	85 71	86 74	83 75	86 73	86 74	84.6 74.2
MAWAHUNA POINT 949.1	MAX MIN	83 69	84 68	88 69	83 70	84 73	81 70	82 75	84 70	82 71	84 71	84 71	84 74	84 76	83 74	83 71	85 70	81 69	85 73	85 69	84 71	85 72	86 74	84 65	85 74	85 71	88 74	85 73	88 75	86 74	87 73	82 74	84.3 71.7
HANA 1026	MAX MIN	88 66	89 65	86 68	87 67	88 67	89 68	89 67	90 67	88 66	88 65	87 68	86 70	90 69	90 68	89 67	88 66	90 67	89 67	89 67	89 68	87 66	90 66	88 67	90 67	88 66	87 67	88 67	88 67	88 68	88 67	88 67	88.4 67.3
NIU RIDGE 1035	MAX MIN	81 63	80 63	80 62	81 62	81 63	82 64	81 63	82 64	82 63	81 62	82 63	83 63	82 63	84 64	83 63	82 63	81 63	82 63	82 63	82 63	81 62	82 63	83 63	84 65	83 62	83 62	84 63	83 64	83 63	82 63	82.1 63.3	
WAIAMI LOWER 1054	MAX MIN	82 61	82 61	81 64	81 65	79 67	80 68	80 67	79 67	79 66	80 69	80 68	81 70	81 69	81 68	82 66	82 62	82 61	82 66	81 67	83 65	81 64	82 66	82 66	82 68	84 64	85 61	85 64	83 65	83 67	83 67	83 67	81.7 65.7
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	82 64	82 64	83 65		85 67	85 67	85 70	84 70	84 68			86 69	86 73	85 68	85 69	86 66			86 66	85 66	86 67	86 67				86 63	84 65	83 67	85 65	86 70		84.8 67.0
HONOLULU WSO 703	MAX MIN	84 70	87 71	85 72	84 74	84 73	84 73	83 72	84 72	83 72	85 73	83 75	85 74	84 74	85 73	86 73	87 72	85 70	86 72	85 72	86 73	86 73	84 74	85 73	85 73	87 73	85 71	85 71	86 72	86 74	84 74	85 74	85.0 72.7
HONOLULU SUBSTA 704	MAX MIN	80 72	83 74	82 74	81 74	81 74	81 73	80 71	81 73	79 72	81 73	80 75	81 74	82 75	79 74	80 73	81 72	82 72	81 72	82 72	82 74	81 74	81 74	83 74	83 74	83 73	85 74	83 73	83 74	81 76	82 75	81 75	81.4 73.4
KAMUKU 912	MAX MIN	83 73	83 70			83 67	83 67	83 71	83 71	83 73			83 72	82 72	83 74	83 72	82 72			84 71	83 70	83 74	84 73				84 67	84 72	84 73	84 74	84 73		
KANEOME MAUKA 781	MAX MIN	83 70	83 69	83 66	81 72	81 72	83 72	83 70	80 69	82 71	80 74	80 71	81 72	83 72	82 73	62 72	84 71	82 69	83 70	83 69	82 70	82 72	84 72	82 72	82 73	84 68	84 67	83 70	82 69	85 70	80 70		82.4 70.6
LUALUALEI 804	MAX MIN	84 66	85 65	82 67	86 74	84 67	85 68	84 67	84 68	84 68	83 75	87 75	84 75	87 76	86 74	86 73	86 71	85 72	86 70	87 69	86 72	86 73	85 73	84 73	84 73	86 72	88 72	86 71	86 73	87 74	87 76	85 74	85.5 71.1
MAKAPOU POINT 724	MAX MIN	81 69	81 68	81 70	80 69	77 69	77 72	78 69	76 68	77 71	78 68	79 69	79 69	78 68	79 71	79 69	79 70	81 71	79 69	79 69	79 69	79 69	85 69	77 69	77 69	77 70	79 72	79 72	81 69	78 69	80 70	79 70	79.1 69.8
OPAELA 870	MAX MIN	83 65	82 64	81 65	80 65	78 65	81 65	79 69	78 75	80 75	85 65	80 67	81 65	82 66	83 66	83 65	82 65	79 65	82 65	81 66	83 66	80 65	82 66	81 65	81 65	82 66	82 65	81 65	80 66	80 69	80 65	80 65	81.1 66.2
PRI WAIHANA 820.2	MAX MIN	85 61	85 62	82 65	84 64	85 64	85 66	85 67	84 67	82 65	81 67	84 70	85 67	85 70	85 65	84 65	84 65	84 62	84 66	85 63	86 65	86 68	83 67	83 69	83 69	86 63	86 61	88 61	86 62	86 65	87 70	82 70	84.6 65.3
WAIALEE 896.3	MAX MIN																																
WAIALUA 847	MAX MIN	88 61	86 63	85 64	85 66	84 65	85 66	84 67	84 67	84 63	82 64	86 64	84 67	85 72	85 64	85 63	85 63	87 63	86 65	86 63	85 63	85 64	84 66	84 66	86 66	86 63	88 62	86 64	86 61	87 68	83 73		85.3 65.2
WAIKIKI 717.2	MAX MIN	83 68	84 69	87 69	85 72	84 72	86 72	84 71	85 72	85 72	84 73	87 74	85 74	87 74	86 73	87 71	87 69	86 68	87 70	86 69	86 72	87 73	86 73	86 73	87 73	86 71	88 73	86 71	88 72	87 73	86 74		85.9 71.5
WAIMANALO EXP FARM	MAX MIN	83 72	84 69	83 69	82 72	83 73	83 71	82 72	81 69	83 71	80 71	83 71	81 71	83 72	84 73	83 73	84 73	84 73	84 72	83 73	84 73	84 73	85 73	84 73	85 73	84 72	85 69	84 69	84 72	85 72	83 72	83.3 71.7	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	84 65	84 66	84 69	84 74	83 70	83 71	82 70	81 69	81 69	82 71	83 76	82 69	83 69	80 70	82 70	82 70	82 68	82 75	84 72	83 72	82 71	83 70	83 70	81 69	82 68	85 65	85 65	81 69	84 69	83 71	83 70	82.7 69.7
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN	78 63	79 61	79 63	79 64	77 64	78 66	78 66	75 66	76 65	77 67	78 64	76 66	76 67	74 66	76 66	76 65	78 65	76 66	76 66	78 66	75 65	79 66	76 66	76 66	76 65	78 65	78 66	77 66	76 66	76 67	77 66	76.8 65.3
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	63 41	61 44	62 40	67 43	70 45	71 47	70 47	64 45	64 45	65 47	67 53	72 55	66 54	68 55	68 48	69 48	68 46	68 49	72 54	73 49	67 45	69 54	66 46	71 55	71 43	66 41	65 46	64 42	59 39	65 49	67 52	67.0 47.3
HALEAKALA SUMMIT 338.4	MAX MIN	53 38	56 41	62 48	59 48	63 48	65 48	62 44	56 37	55 36	54 42	56 42	60 42	54 40	55 42	59 44	58 44	58 62	62 46	63 44	62 49	65 48	60 46	59 46	57 43	58 42	59 41	59 41	55 40	56 40	53 42	48 38	58.1 42.8
HANA AIRPORT 355	MAX MIN	85 65	86 64	86 70	86 67	84 67	84 70	85 83	83 69	83 68	83 69	82 68	82 68	80 70	84 71	85 68	85 68	86 65	85 65	87 66	85 67	86 67	86 66	86 66	86 66	85 67	86 65	86 65	85 64	86 63	81 65	86 69	84.7 67.5
KAANAPALI AIRPORT	MAX MIN	84 67	84 68	85 68	84 70	84 70	84 73	83 67	83 66	83 70	85 68	84 69	83 67	84 69	85 69	85 67	83 64	83 66	85 66	84 66	83 66	83 66	83 66	84 66	83 66	83 66	84 66	85 66	83 66	83 67	83 65	83 65	84.0 67

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DAILY TEMPERATURES

Continued

HAWAII
JULY 1971

Station		Day of Month																															JULY	1971
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
KULA SANATORIUM 267	MAX MIN	73 54	75 54	74 55	76 58	75 55	74 56	75 55	72 56	76 57	73 57	73 57	72 58	73 60	77 61	73 58	71 56	72 58	72 57	77 56	72 57	73 58	75 56	72 56	74 56	72 57	73 55	76 56	74 56	71 55	75 56	73 55	73.6 56.3	
LAHAINA 361	MAX MIN	85 68	88 67	85 68	86 67	87 68	86 68	87 68	88 69	89 67	86 68	86 68	86 67	89 70	90 71	88 71	86 69	86 67	85 67	86 69	86 68	87 67	87 68	87 66	87 67	88 67	88 66	86 69	86 65	87 70	88 67	86.9 67.9		
WAILUKU 386	MAX MIN	82 68	83 67				84 68	81 70	80 70	80 69			82 69	81 70	80 71	82 72	81 71				82 71	82 72	80 71	82 72	80 71			81 71	81 69	83 71	80 69	80 71		
* * *																																		
ISLAND OF HAWAII																																		
HAINA 214	MAX MIN	82 65	82 65	82 67	82 65	80 66	82 67	83 68	82 65	82 65	83 69	83 70	82 67	81 69	76 69	80 67	81 65	80 68	80 67	81 67	80 70	84 65	83 68	83 69	81 67	80 67	82 64	84 68	82 67	83 65	83 70	77 68	81.5 67.1	
HAWAII VOLCNS NP HO 54	MAX MIN	73 52	72 51	73 54	70 53	70 54	69 54	64 54	68 55	68 54	69 53	71 57	69 53	74 61	67 58	68 56	68 55	69 57	74 54	68 55	67 54	69 55	70 53	67 54	68 53	71 51	69 52	69 53	66 52	74 52	65 60	65 53	69.4 54.4	
HILO WSO 87	MAX MIN	87 66	87 67	87 70	87 69	86 68	84 70	84 70	83 68	81 68	84 71	83 71	81 72	80 71	84 70	84 69	84 68	85 68	85 69	85 71	86 70	86 69	86 70	86 69	86 69	86 66	86 65	86 66	86 65	84 70	83 69	84 66	84.1 69.0	
KAINALIU 73.2	MAX MIN	76 60	76 61	76 63	75 63	77 63	77 65	75 65	77 64	77 63	78 62	81 64	78 63	80 60	80 65	76 66	72 67	76 66	74 63	77 66	78 66	76 65	78 65	76 66	76 63	73 67	77 66	76 61	78 64	78 65	80 63	76.7 63.8		
KAMUELA 192.2	MAX MIN	76 58	76 56	77 58	75 56	75 56	76 57	72 57	72 59	72 58	73 58	72 60	70 60	71 60	70 59	72 59	75 60	74 60	71 60	71 57	72 57	73 58	73 59	70 58	71 59	72 60	72 59	74 57	72 60	73 59	70 56	72.7 58.6		
KEAAU 92	MAX MIN	81 65	82 64	82 64	82 65	81 66	82 67	80 67	81 66	80 66	80 66	78 67	81 67	80 68	78 69	78 67	78 66	80 67	80 66	82 68	81 68	81 67	81 66	81 66	81 66	80 67	81 64	83 64	82 65	78 65	79 65	80.6 66.3		
KEALAKEUA 26.2	MAX MIN	77 60	75 62	75 63	75 64	77 64	76 65	76 65	74 63	79 62	78 63	80 64	78 62	79 65	81 68	75 67	72 67	77 66	75 65	78 65	78 66	78 66	77 66	78 66	76 67	75 63	78 64	77 61	78 63	79 64	79 64	77.0 64.3		
KOHALA MISSION 175.1	MAX MIN	83 65	82 67	83 67	82 68	82 67	82 68	81 67	81 68	81 66	81 69	81 70	80 68	78 67	75 62	82 69	82 67	81 68	81 69	79 68	81 69	81 68	82 68	81 69	81 69	79 68	81 67	82 68	81 67	80 68	73 67	80.7 68.0		
KONA (KAILUA) 68.3	MAX MIN	85 70	85 71		85 70	82 72		84 72	81 71	84 68				85 70	85 73	85 71	83 70	85 70		85 73	82 73	83 71	81 71				85 69	85 68	85 68	83 70	84 72		83.9 70.6	
KULANI CAMP 79	MAX MIN	67 43	59 42	67 42	67 44	64 47	65 53	54 44	54 52	65 51	62 44	65 52	68 58	70 58	58 54	67 49	60 50	67 43	67 43	57 46	57 46	62 44	58 49	58 46	64 44	64 47	64 51	58 45	66 45	65 42	68 48	63 47	62.7 47.6	
MAUNA LOA SLOPE OBS	MAX MIN	50 31	55 38	58 40	61 44	60 41	61 40	61 45	54 42	55 41	52 37	55 37	51 37	52 42	52 41	51 37	53 36	55 36	58 36	61 41	60 39	58 41	59 41	62 43	61 41	55 35	54 34	55 35	54 37	60 37	52 35	48 32	55.9 37.9	
MOUNTAIN VIEW 91	MAX MIN	79 59	80 58	80 60	80 60	80 60	80 61	74 61	77 62	76 62	77 63	77 63	78 64	77 65	70 63	73 62	77 61	77 61	77 61	76 62	77 62	76 62	77 63	80 62	78 58	78 58	79 58	74 59	71 60	80 61	77 61	77.1 61.0		
NAALEHU 14	MAX MIN	78 66	79 66	79 66	80 67	80 67	80 67	79 67	78 66	78 66	79 66	79 66	78 63	84 71	76 68	77 68	78 67	79 66	79 66	77 66	75 69	77 69	78 69	78 69	80 65	80 65	79 66	79 67	84 63	84 70	79.1 66.8			
OOKALA 223	MAX MIN	81 65	80 65	80 65	81 65	82 65	82 65	83 65	80 65	80 65	81 65	80 66	82 66	80 67	77 68	80 70	80 68	80 65	80 65	81 68	79 68	81 68	81 68	81 68	80 66	80 66	81 66	81 65	80 66	78 65	80.4 66.3			
OPIHIHALE 2 24.1	MAX MIN	74 63	74 62	74 62	76 66	74 65	77 61	81 62	83 61	82 63	76 66	85 64	84 66	85 64	85 64	78 65	79 66	75 61	76 66	83 63	80 59	75 64	77 63	80 63	76 63	77 62	76 60	76 60	78 60	79 64	82 66	76 63	78.5 63.0	
PAHALA 21	MAX MIN	79 61	80 61					81 60	81 67	79 63			83 62	87 62	82 68	75 67				81 61	82 67	80 63	77 64	81 63			81 60	82 60	81 61	78 61	85 61			
PUAKO 95.1	MAX MIN	85 68	86 73	86 72	88 71	87 69	86 70	89 71	86 70	87 72	86 69	86 72	89 73	88 78	87 73	87 75	86 73	87 71	86 71	88 74	86 71	87 72	86 71	87 72	87 70	87 69	85 69	84 67	86 72	86 71	86.5 71.1			
UPOLU POINT USCG 159.2	MAX MIN	83 66	84 69	85 74	84 72	84 68	82 68	82 69	79 71	82 68	81 66	82 72	82 70	79 71	78 70	83 67	84 71	84 71	82 72	80 72	78 74	82 66	85 70	84 72	80 74	82 69	82 68	83 69	84 68	82 72	81 71	83 69	82.1 70.0	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1	EVAP WIND MAX MIN	.35 104 86 63	.22 67 87 64	.26 90 85 63	.34 183 86 65	.37 206 85 64	.27 209 84 64	.39 229 84 63	.33 247 82 64	.41 235 83 63	.33 220 83 64	.24 287 86 65	.25 200 82 65	.36 190 85 65	.35 209 84 64	.39 173 85 64	.28 127 82 63	.41 104 86 63	.40 139 87 63	.37 139 86 65	.43 158 85 64	.39 163 85 64	.43 195 85 63	.44 215 86 63	.46 215 85 63	.48 198 83 63	* 125 - -	.75 89 88 63	.40 143 88 64	.51 191 86 62	.33 165 86 65	.31 228 89 64	11.25 5363 85.2 63.7
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP WIND MAX MIN	.30 93 66	.29 34 93 67	.28 38 92 67	.26 30 88 67	.35 40 92 67	.36 43 90 66	.39 54 93 66	.30 50 87 67	.40 50 92 65	.30 49 92 65	.22 35 92 65	.21 51 90 67	.35 52 90 68	.37 42 93 67	.30 32 92 67	.28 31 91 66	.25 27 91 66	.29 30 93 66	.34 39 92 65	.34 38 92 66	.34 37 90 66	.37 46 94 65	.24 50 92 66	.51 52 92 67	.30 40 90 64	.32 34 92 64	.35 33 94 65	.33 47 92 67	.32 40 88 66	.31 37 91 67	.29 61 87 66	9.86 1276 91.3 66.1

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STATION INDEX

HAWAII
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STATION										STATION									
INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	OBSERVER	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.
1000000	1	1	1	1	1	1	1	1	1	1	1000000	1	1	1	1	1	1	1	1
1000001	1	1	1	1	1	1	1	1	1	1	1000002	1	1	1	1	1	1	1	1
1000003	1	1	1	1	1	1	1	1	1	1	1000004	1	1	1	1	1	1	1	1
1000005	1	1	1	1	1	1	1	1	1	1	1000006	1	1	1	1	1	1	1	1
1000007	1	1	1	1	1	1	1	1	1	1	1000008	1	1	1	1	1	1	1	1
1000009	1	1	1	1	1	1	1	1	1	1	1000010	1	1	1	1	1	1	1	1
1000011	1	1	1	1	1	1	1	1	1	1	1000012	1	1	1	1	1	1	1	1
1000013	1	1	1	1	1	1	1	1	1	1	1000014	1	1	1	1	1	1	1	1
1000015	1	1	1	1	1	1	1	1	1	1	1000016	1	1	1	1	1	1	1	1
1000017	1	1	1	1	1	1	1	1	1	1	1000018	1	1	1	1	1	1	1	1
1000019	1	1	1	1	1	1	1	1	1	1	1000020	1	1	1	1	1	1	1	1
1000021	1	1	1	1	1	1	1	1	1	1	1000022	1	1	1	1	1	1	1	1
1000023	1	1	1	1	1	1	1	1	1	1	1000024	1	1	1	1	1	1	1	1
1000025	1	1	1	1	1	1	1	1	1	1	1000026	1	1	1	1	1	1	1	1
1000027	1	1	1	1	1	1	1	1	1	1	1000028	1	1	1	1	1	1	1	1
1000029	1	1	1	1	1	1	1	1	1	1	1000030	1	1	1	1	1	1	1	1
1000031	1	1	1	1	1	1	1	1	1	1	1000032	1	1	1	1	1	1	1	1
1000033	1	1	1	1	1	1	1	1	1	1	1000034	1	1	1	1	1	1	1	1
1000035	1	1	1	1	1	1	1	1	1	1	1000036	1	1	1	1	1	1	1	1
1000037	1	1	1	1	1	1	1	1	1	1	1000038	1	1	1	1	1	1	1	1
1000039	1	1	1	1	1	1	1	1	1	1	1000040	1	1	1	1	1	1	1	1
1000041	1	1	1	1	1	1	1	1	1	1	1000042	1	1	1	1	1	1	1	1
1000043	1	1	1	1	1	1	1	1	1	1	1000044	1	1	1	1	1	1	1	1
1000045	1	1	1	1	1	1	1	1	1	1	1000046	1	1	1	1	1	1	1	1
1000047	1	1	1	1	1	1	1	1	1	1	1000048	1	1	1	1	1	1	1	1
1000049	1	1	1	1	1	1	1	1	1	1	1000050	1	1	1	1	1	1	1	1
1000051	1	1	1	1	1	1	1	1	1	1	1000052	1	1	1	1	1	1	1	1
1000053	1	1	1	1	1	1	1	1	1	1	1000054	1	1	1	1	1	1	1	1
1000055	1	1	1	1	1	1	1	1	1	1	1000056	1	1	1	1	1	1	1	1
1000057	1	1	1	1	1	1	1	1	1	1	1000058	1	1	1	1	1	1	1	1
1000059	1	1	1	1	1	1	1	1	1	1	1000060	1	1	1	1	1	1	1	1
1000061	1	1	1	1	1	1	1	1	1	1	1000062	1	1	1	1	1	1	1	1
1000063	1	1	1	1	1	1	1	1	1	1	1000064	1	1	1	1	1	1	1	1
1000065	1	1	1	1	1	1	1	1	1	1	1000066	1	1	1	1	1	1	1	1
1000067	1	1	1	1	1	1	1	1	1	1	1000068	1	1	1	1	1	1	1	1
1000069	1	1	1	1	1	1	1	1	1	1	1000070	1	1	1	1	1	1	1	1
1000071	1	1	1	1	1	1	1	1	1	1	1000072	1	1	1	1	1	1	1	1
1000073	1	1	1	1	1	1	1	1	1	1	1000074	1	1	1	1	1	1	1	1
1000075	1	1	1	1	1	1	1	1	1	1	1000076	1	1	1	1	1	1	1	1
1000077	1	1	1	1	1	1	1	1	1	1	1000078	1	1	1	1	1	1	1	1
1000079	1	1	1	1	1	1	1	1	1	1	1000080	1	1	1	1	1	1	1	1
1000081	1	1	1	1	1	1	1	1	1	1	1000082	1	1	1	1	1	1	1	1
1000083	1	1	1	1	1	1	1	1	1	1	1000084	1	1	1	1	1	1	1	1
1000085	1	1	1	1	1	1	1	1	1	1	1000086	1	1	1	1	1	1	1	1
1000087	1	1	1	1	1	1	1	1	1	1	1000088	1	1	1	1	1	1	1	1
1000089	1	1	1	1	1	1	1	1	1	1	1000090	1	1	1	1	1	1	1	1
1000091	1	1	1	1	1	1	1	1	1	1	1000092	1	1	1	1	1	1	1	1
1000093	1	1	1	1	1	1	1	1	1	1	1000094	1	1	1	1	1	1	1	1
1000095	1	1	1	1	1	1	1	1	1	1	1000096	1	1	1	1	1	1	1	1
1000097	1	1	1	1	1	1	1	1	1	1	1000098	1	1	1	1	1	1	1	1
1000099	1	1	1	1	1	1	1	1	1	1	1000100	1	1	1	1	1	1	1	1

STATION INDEX

HAWAII
JULY 1971

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL	
ISLAND OF HAWAII												
MIDDLE MOULALOA 66.1	A 6268	04	N KONA	4	19 37	155 35	475	VAR				KONA EXPERIMENT STA
MIDDLE RIV 147.1	A 6270	01	N KONA	1	20 03	155 30	1380	VAR				KAMUA RANCH
MAUOLA 18	A 6407	03	KAU	3	19 11	155 30	800					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	A 6552	02	PUNA	2	19 33	155 07	1330	04	04			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	675	04	04			HUTCHINSON SUGAR CO
NAPUOPO 28	A 6697	04	S KONA	4	19 28	155 55	395					HAWAII VOLCANUES NAT PK
NAULU FOREST 38.6	0731	02	PUNA	2	19 14	155 05	75					CLOSED STATIONS
NIHULI 176	A 6804	01	N KONA	1	20 01	155 17	430	74				ISLAND OF HAWAII
ODKALA 223	7131	02	N HILU	2	20 01	155 17	430	74				WAIHEA KUHALA
OPIMUHALE 2 24.1	7100	04	S KONA	4	19 16	155 33	1270	74				NEW STATIONS
ORCHID LAND EST 91.5	A 7189	02	PUNA	2	19 34	155 00	445	VAR				ISLAND OF OAHU
PAKUHAI 217	7504	01	HAWAII	1	20 09	155 26	415	74				BOARD OF WATER SUPPLY
PAUULU 221	7312	01	HAWAII	1	20 03	155 22	800	74				PAUHAU SUGAR CO
PANALA 21	A 7421	03	KAU	3	19 12	155 29	870	04	04			HAWAIIAN RANCH CO
PANOA 65	A 7437	02	PUNA	2	19 30	154 57	870	04	04			PUNA SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 24	5000					HAWAIIAN RANCH CO, INC.
PAPAIAHOU 144.1	7711	02	S HILU	2	19 47	155 08	200	74				MAUNA KEA SUGAR CO.
PAPAIAHOU MAUKA 140.1	7721	02	S HILU	2	19 47	155 08	200	74				MAUNA KEA SUGAR CO.
PEPEKEKE MAKA 144	8000	02	S HILU	2	19 51	155 05	100	74				PEPEKEKE SUGAR CO
PEPEKEKE MAKA 144	A 8051	02	S HILU	2	19 44	155 10	1730					STATE DIV OF FORESTRY
POMAKUOLA 107	A 8063	02	HAWAII	2	19 49	155 32	6311	VAR	04			STATE DIVISION OF PARKS
PUNAKO 95.1	A 8184	03	KONA	3	19 59	155 30	5	84	84			RAWIN H. KAPP
PUNU KIME 120	A 8393	03	HAWAII	1	19 34	155 24	7750					KUKAIAU RANCH CO
PUNU LAU 102.1	A 8492	03	HAWAII	1	19 34	155 24	7750					STATE DIV OF FISH-GAME
PUNU LEMUA 73	A 8400	04	N KONA	4	19 34	155 49	4880					W. GREENELL RANCH
PUNU MALI 113	A 8515	02	HAWAII	1	19 35	155 40	6980					KUKAIAU RANCH CO
PUNU UO 52	8550	02	S HILU	2	19 44	155 23	6340	04	04			DON WINTERS
PUNU WAANAA 94.1	A 8555	03	N KONA	3	19 47	155 51	2520	74				CLINGHAM RANCH INC
SADDLE RIDGE 1 84	A 8590	02	S HILU	2	19 42	155 12	2340					BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	900					HAWAIIAN RANCH COMPANY

↓ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-NO INTRA-ISLAND DIVISIONS LANAI: 1-NO INTRA-ISLAND DIVISIONS MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3500, Honolulu, Hawaii, or to any National Weather Service Office near you. Additional precipitation data are contained in "MONTHLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: is measured in the standard Weather Bureau type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.

No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates

++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data

* Amount included in following measurement; time distribution unknown.

A The letter "A" shows following station name in "Climatological Data" table. "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly; usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as delayed data in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

Thermometers are generally exposed in a shelter located a few feet above eod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Sub-station History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 35 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Resittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center

USCNO-NOAA-ASHEVILLE-11/01/71-890

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

AUGUST 1971

Volume 67 No. 8

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature										Precipitation																
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
																		Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	10 or More	50 or More	100 or More
										30° or Above	20° or Below	10° or Below	0° or Below														

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 93

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
AUGUST 1971

Continued

Station		Temperature										Precipitation												
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
											Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											51° or Above	32° or Below	32° or Below	32° or Below										
KEAAU 92		82.5	65.5	74.0	- 1.1	86	15	63	10		0	0	0	0	3.02	- 8.73	.52	31	.0	0		10	1	0
KEALAKEKUA 26.2	A	78.4	63.8	71.1		82	31	62	28+		0	0	0	0	3.50		1.27	11	.0	0		6	3	1
KONA (KAILUA) 68.3		84.9M	69.8M	77.4M		86	31+	59	4		0	0	0	0	.86				.0	0		0	0	0
KUKUIHAELE HIC 199															.88	- 5.09	.35	16	.0	0		3	0	0
KULANI CAMP 79		65.7	46.5	56.1		70	9	42	31+		0	0	0	0	2.81		.75	17	.0	0		8	2	0
PAHALA 21	A	83.2M	62.6M	72.9M	- 1.1	87	17	61	26+		0	0	0	0	.38	- 2.68	.35	11	.0	0		1	0	0
POHAKULOA 107	A														.47				.0	0		0	0	0
PUAKO 95.1	A	87.1	70.7	78.9		90	17	67	10		1	0	0	0	.01		.01	14	.0	0		0	0	0
PUU WAAWAA 94.1	A														4.82	- 2.69	2.55	9	.0	0		4	3	2
UMIKOA 118															.74	- 4.32	.28	16	.0	0		3	0	0
WAIKOA SCO 88.2															3.57		.80	16	.0	0		9	2	0
ISLAND				71.5											1.89				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 92° ON THE 18+ AT 2 STATIONS

LOWEST TEMPERATURE: 29° ON THE 8TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 10.85 INCHES AT MOUNT WAIKALEALE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 10 STATIONS

GREATEST ONE-DAY PRECIPITATION: 2.55 INCHES ON THE 9TH AT PUU WAAWAA 94.1, HAWAII

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

The dry spell of June and July continued unabated through August.

At this season the major source of rainfall is showers which form within the moist trade wind air as it ascends and traverses the mountain barriers of the various islands, and although the trades themselves occurred with their seasonal strength and frequency, the customarily associated showers were, for reasons not well understood, conspicuously light or lacking. Ideal as the resulting warm, sunny weather may have been for recreation, construction, and other outdoor activities, it was most unwelcome to ranching and agriculture, particularly in ordinarily wet areas where sugarcane is grown without irrigation, and to the suppliers and users of domestic water. Hardest hit was East Maui, which, unlike West Maui, is entirely dependent on rainfall, since no ground water has been discovered there, and particularly the Kula area and other sections of Haleakala's relatively dry western and northwestern slopes, for which windward East Maui, with its normally abundant rainfall (over 300 inches a year, in places) serves as a watershed. In some localities, such as Pukalani, shortages appeared to be compounded by the fact that population growth had outstripped water availability. In the Kula area, the water crisis involved about 3,500 people and 10,000 head of cattle, the latter alone consuming about 175,000 gallons daily.

As the month progressed, a number of effects were being noted and actions taken:

1) At Kalae, Molokai, water was being trucked in to 40 families, about 150 people. This had begun July 26.

2) By mid-month, conditions had become critical in the East Maui areas of Kula, Hana, Makawao-Pukalani, Kokomo-Kaupokalua, Haiku-Pauwela, and Haliimaile-Olinda. When water consumption remained high, despite appeals for voluntary conservation, rationing was imposed in Kula, watering of lawns was forbidden, and agricultural irrigation was restricted to twice-weekly 7-hour daylight periods. On August 30 irrigation was further restricted to only once weekly.

3) On August 19 the Maui County Board of Water Supply declared a drought and stipulated penalties for violating water-use schedules and regulations.

4) By August 25, Wailua Stream, Hana's main source of water, was completely dry. Water for domestic use in the District was restricted to periods totalling only 7 hours between 6 a.m.

and 8 p.m. and Wainapanapa State Park remained closed.

5) By August 25, the main sources of water for Upper Kula were nearly exhausted. The 1 million gallons impounded by Waikamoi Dam were gone. Waikamoi's two 15-million-gallon reservoirs contained only 2 feet (about 3 million gallons) of water, and the 11.5-million-gallon reservoir at Olinda was down to three-fourths of a million gallons. Fortunately, the Lower Kula system's 50-million-gallon capacity Piipholo Reservoir, near Makawao, was nearly full, and jury-rigged pumps borrowed from Civil Defense, plantations, and the East Maui Irrigation Company, were pumping water into the severely depleted Upper Kula system.

6) Also on August 25 the East Maui Irrigation Company reported that its ditches, which supply irrigation water to sugar plantations in the normally dry central valley, had delivered only two-thirds of their normal quantity during July, and that the June through August period had been the driest since 1901, when records began. The irrigation interval was lengthened to 16 days.

7) The Maui County Council formally expressed the need to find new ground water sources for East Maui and the Maui Planning Department deferred subdivision approvals in Kula and Hana pending the resolution of the water shortage problem.

8) As the month ended, Maui was considering asking the Governor to declare a drought emergency in order to make State and Federal funds available to the island.

The dry weather had a mixed effect on sugarcane. It was beneficial, in that it facilitated mechanical harvesting and improved juice quality, but, on the other hand, the deficiency of water during the peak growth months for sugarcane, a 2-year crop in Hawaii, could reduce next year's yield.

The dry spell was being felt elsewhere than on Maui. In the Papa-Milolii-Honomalino area of southwestern Hawaii Island, the extended dry weather had set back macadamia nut production, and water for agricultural purposes was being trucked in, at a cost of \$3,000 thus far this year. In the Kau District, sugarcane fields at lower elevations were drying out and planting was being postponed pending significant rain.

Over the State as a whole, as the accompanying maps show, only a scattering of rain gages out of the several hundred reporting exceeded their

SPECIAL WEATHER SUMMARY - Continued

average for the month, with gages in many areas reading well under half, or even under one-fourth of their monthly mean rainfall, for example, in the Kohala, Hamakua, and Kau Districts of Hawaii Island.

At Waikamoi Dam in the East Maui watershed, this year's May through August rainfall is the lowest since records began in 1911, (1931-1936 data missing), and only 30 percent of normal, as compared to 40 and 74 percent, respectively, during the droughts of 1953 and 1962.

Table I compares May through August rainfall for 1971 at a number of stations in Maui with that during the dry spells of 1953 and 1962. A considerable number of gages, many of them with 25 years of record or more, had substantially less rain in August 1971 than in any previous August. These are given in Table II. The number of days with measurable rain (one-hundredth inch or more) at a few major locations is listed in Table III.

T A B L E I

May-August Rainfall During Recent and Past
Periods of Extended Dry Weather

Island of Maui

Station	1953	1962	1971	Average	1971 Percent of Average
Haleakala BES	8.31	6.10	6.24	15.99	39
Haleakala Summit	--	4.55	1.19	5.44	22
Hana	11.92	--	6.40	17.28	31
Hana Airport	15.10	18.10	8.60	21.79	39
Kailua	34.40	46.60	16.50	38.95	42
Kihei	0.14	1.22	0.71	0.60	118
Kula	--	3.68	1.45	7.69	19
Kula Sanatorium	3.60	6.20	2.40	8.14	30
Lahaina	0.00	1.57	0.39	0.94	41
Olinda	4.50	3.70	2.30	7.83	29
Paakea	65.10	47.70	28.60	67.11	43
Ulupalakua Ranch	--	4.49	3.48	6.67	52
Waikamoi Dam	55.80	28.60	22.30	74.68	30
Wailuku	1.84	1.16	0.83	3.17	26

T A B L E II

Stations With Less Rain in August 1971
than in Any Previous August

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Least August Total	August 1971
<u>KAUAI</u>		(Inches)	(Inches)
Ililiula Intake	37	8.40	6.63
<u>OAHU</u>			
Kapalama	50	0.83	0.71
Manoa Tunnel 2	44	4.04	2.82
Palolo Valley	43	2.44	2.14
Pauoa Flats	44	5.72	3.38

SPECIAL WEATHER SUMMARY - Continued

Station	Length of Record (Yrs.)	Previous Least August Total (Inches)	August 1971 (Inches)
<u>MAUI</u>			
Hana	51	1.80	0.61 *
Kailiili	47	1.79	1.38
Keanae	67	5.47	3.10
Lupi Upper	75	4.10	2.80
Nakalele	34	0.93	0.73
Paakea	67	5.75	4.16
Puohokamoa 2	47	6.60	3.40
Waikamoi	66	6.28	2.40
<u>HAWAII</u>			
Hakalau	80	2.90	2.73
Hilo Airport	29	4.15	2.66
Honohina	51	3.49	2.59
Kaalaiki	33	0.96	0.50
Keaau	71	3.77	3.02
Mountain View	71	3.82	3.34
Papaikou	73	4.11	3.41
Papaikou Mauka	46	7.05	5.23
Pepeekeo Makai	82	3.29	3.08
Piihonua	47	7.80	4.40

* -- Least in any month of record

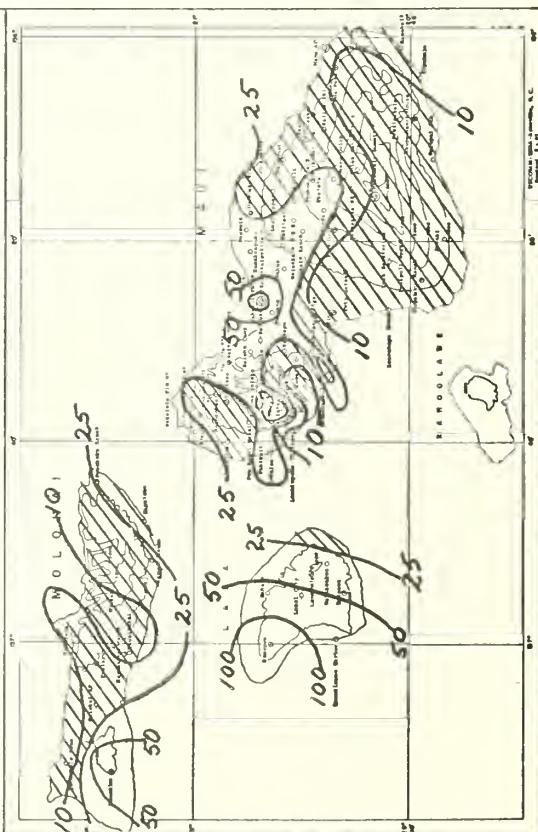
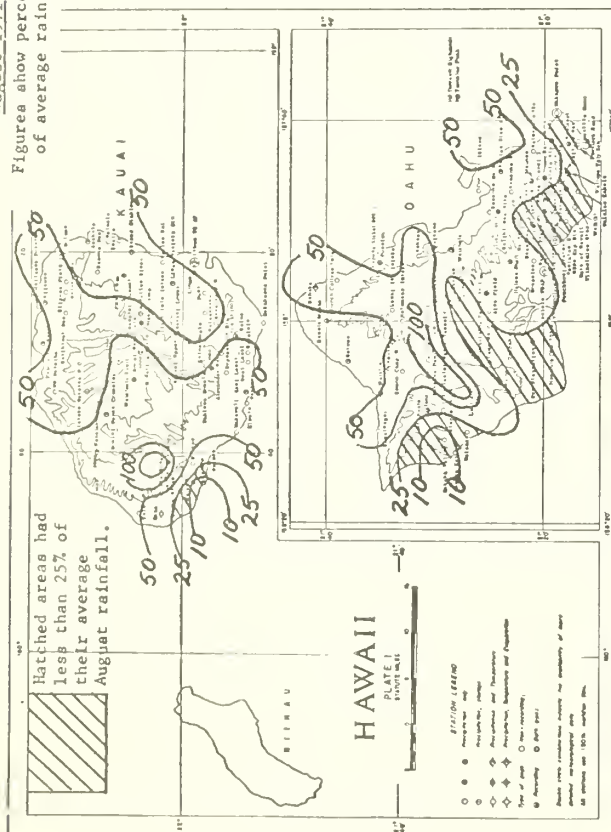
T A B L E I I I
Number of Days with Measurable Rain
(.01 inches or more)

Station	August 1971	Average	Percent of Average August 1971
Hilo Airport	16	27	59
Honolulu Airport	7	7	100
Honolulu City	6	13	46
Kahului Airport	5	7	71
Lihue Airport	13	19	68

Saul Price
Regional Climatologist for Pacific Region
P. O. Box 3650
Honolulu, Hawaii 96811

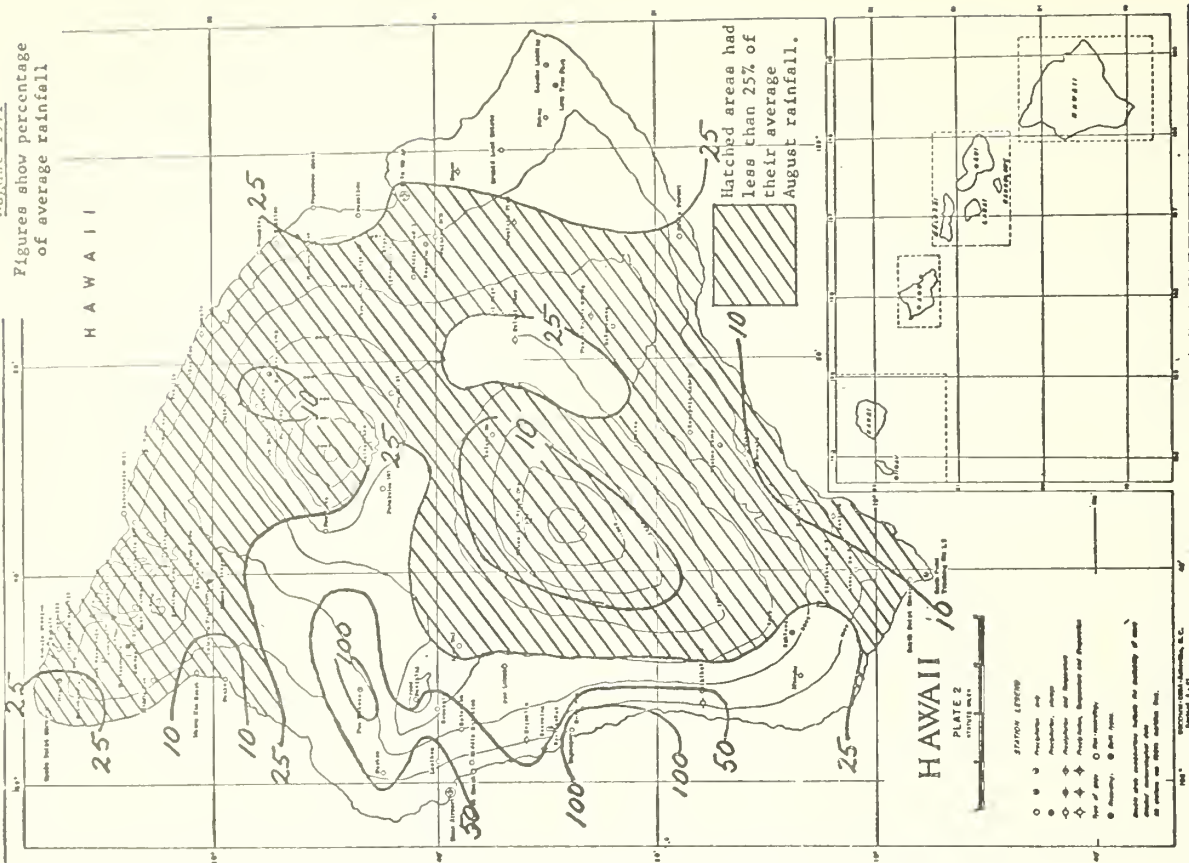
August 1971

Figures show percentage of average rainfall



August 1971

Figures show percentage of average rainfall



DAILY PRECIPITATION

HAWAII
AUGUST 1971

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																		
ANAMOLA 1114	A	1.95	*	.17	.02	.13	.30	.17	*	*	.35						.30			.07	*	*	*	.21			.05	*	*	.13				
BYOESWOOD STA 985	A	2.80	*	.16	.36	.24	.27	.01	*	*	.15		.03	.09	.05	*	.49	.11	.03	.55	*	*	*	.13	.02		.07	T	*	*	.01	.03		
EAST LAWA 934	A	2.83	*	.09	.54	.25	.34	.01	*	*				.21	.03	*	.73	.06	.06	.11	T	*	*	.18	.01	.03	.10	T	*	*	.02	.06		
ELEELE 927	A	1.87	*	.06	.28	.03	.05	.01	*	*	.40			.01		*	.62			.34	*	*	*	.05			.03		*	*				
HAULAULA 1110	A	2.63	*	.23	.03	.32	.25	.19	*	*	.70			.10	.04	*	.28			.10	*	*	*	.17				.11	*	*	.11			
HALEMANAHO 1006	A	4.32	*	.12	.47	.21	.56	.06	*	*	.76	.02		.14	.09	*	.92	.38	.13	.19	.02	*	*	.14			.08					.03		
HUKIPU 945	A	2.54	*	.47	.20	.45	.67	.04	*	*	1.07		.76	.73	.27	*	1.21	.35	.23	.09	.01	*	*	.37	.03	.05	.11	.12	*	*	.07	.09		
LIILILUA INTAKE 1050	A	6.13	*	*	*	*	*	*	*	*	1.57	*	*	*	*	*	.18	*	*	*	*	*	*	.35	*	*	.05	.15	*	*	.29	*		
INTAKE WAINIHA PC 1086	A	2.54	*																															
KANALOHULUHU 1075	A	3.77	*	.08	.01	.06		.01	.52	.22	.25	1.22	.28		.02	.05			.24	.01	.25		.37						.08			.04		
KANEHA RESERVOIR 1092	A	5.63	*	.33	.14	.48	.85	.07	*	*	1.10	.30		.17	.07	*	.70	.10	.04	.80	.06	*	*	.10	.03		.04	.13	*	*	.12	*		
KAPAA STABLES 1104	A	2.60	*	.15	.10	.57	.22	.15	*	*	.10		.10	.15	*	*	.30	.01		.17	*	*	.53						*	*	.06	*		
KEALIA 1112	A	2.51	*	.15	.11	.36	.10	.18	*	*	.10		.06	.40	*	*	.38			.11	*	*	.35				.11	*	*	.10	*	*		
KEKAHA 944	A	.02	*																	.02														
KILAUEA 1134	A	3.40	*	.24	.07	.10	.47	.03	*	*	.75	.16	.01	.10	*	*	.58	.15	.17	.10	*	*	*	.07	.16	.02	.03	.02	*	*	.12	.05		
KILAUEA FIELT 17 1135	A	2.97	*	.21	.07	.20	.54	.02	*	*	.47	.10	.01	.08			.76	.20	.03	.04	*	*	*	.07	.01		.06	.02	*	*	.01	.04		
KILAUEA POINT 1133	A	2.79	.10	.16	.10	.48			.14	.29	.12	.03	.25	.40			.03	.08	.07							.03	.09		.28	.04		.08		
KOLO 1033	A	.68	*																															
KOLOA 936	A	3.08	*	.14	.46	.17	.35		*	*	.35	.05		.14	.14	*	.60	.18	.20	.05	*	*	*	.33	.05	.15		*	*	.02	.10			
KOLOA MAUKA 994	A	4.39	*	.32	.31	.42	.22	.11	*	*	.35	.05		.15	.21	*	.97	.40	.08	.32	.03	*	*	.23		.05	.16		*	*	.04			
KOLOKO RES 1137	A	2.41	*	.21	.12	.30	.44	.14	*	*	.24	.03	.01	.10	.02	*	.29	.07		.15	.01	*	*	.08	.05	.01	.03	.03	*	*	.02	.08		
KOJUIULA 935	A	2.01	*	.03	.32	.15	.27	T	*	*	.20			.13	.14	*	.46	.05	.05	.01	*	*	.06			.01	.06		*	*	.02	.05		
LIHUE VARIETY STA	A	3.70	*	.06	.06	.50	.42	.24	.09	*	.27		.22		.77	*	.01	.27	.33	.22	.08	.03	*	*		.02		.02	*	*	.06	.03		
LIHUE 1020	A	2.55	*	.11	.06	.10	.08		*	*	.18	.01		.18	*	*	.90	.07	.01	.10	*	*	.35		.03	.01	.18	*	*	.02	*	*		
LIHUE WSD 1020.1	//R	.87	.01	.17	.05	T	.02	.12	T					.10	.12	T	.01	.01	T	.09	.07	T				.01	.09	T		T	T	T		
KAKAHUENA POINT 940.1	A	.97		.11	.17	.20	.04	.01		.16		.04		.07		.15		.02	.02	.06					.03	.02		.03				*		
KAKAHUENA 945	A	.42	.03	.13	.04				.09					.07	.13			.02	.08			.03				.01				.01		*		
MANA 1026	A	2.79	*	.08		.12	.23	.31	.31	.19	.06	.74	.33		.06	.06		.25	.19	.03	.02	*	*	.03	.03	.04		.06	.06	.06	.06	.05		
MOLOAA 1145	A	1.36	*	.10		.18	.23	.03	*	*				.04	*	*	.26	.19	.03	.02	*	*	*											
MOUNT WAIALEALE 1047	R	10.85	.16	.24	.39	1.26	.20	.28	.35	.87	.20	.12	.28	.55	.55	1.38	.12	.31	.51	.91	.20	.47	.08		.12	.12	.04	.12	.47	.16	.20	.39		
NIU RIDGE 1035	A	1.81	*	.60	.46	.36	.46	.20	*	.51	.55	.20	.40				.46	.26	*	1.66	.20	.30	.30	.20	*	.46	.20			.36	.20	*		
N. WALLUA OITCH 1051	A	8.50	*	.11	.06	.10	.08		*	.18	1.01	T	.23	.05	.16	.08		.18	.30	.25	T	.05	*	*	.05	.08		.10		.74	.03	*		
PH WAINIHA 1115	A	3.26	*						*	*																								
PRINCEVILLE RANCH 1117	V	8.36	*	.27	.18	.19	.30	.01	*	*	.55	.75		.12	.02	*	1.29	.15	.13	.09	.04	*	*	.02	.08		.02	.02	*	*	.15	*		
PUEHU RIDGE 1040	A	3.50	*	.13	.45	.15	.48	.06		.20	1.32	.38		.13	.03	.03		.27		.08		*	*	.46		.12	.15	.08	*	*	.04	*		
PUEHU 1071	A	4.66	*	.36	.51	.32	.42	.03	*	*	.61	.03		.26	.18	*	1.20	.32	.02	.08		*	*	.28		.05	.08					*		
RESERVOIR 6 1004	A	1.62	*	.10	.34	.07	.17		*	*	.15		.03	T	*	*	.60	.02	T	.10	*	*	.04	*	*						T	*		
WAIHANA 930	A	5.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.60	.02	T	.10	*	*	.04	*	*							5.00	*	
WAIHANA MOUNTAIN 990	A	5.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.60	.02	T	.10	*	*	.04	*	*									
WAIHANA LOWER 1054	A	5.78		.04	.18	.54	.84	.05	.09	.01	.38		.21	.14	1.29	.03	.60	.25	.69		.15		.01		.04	.02				.03	.12	*		
WAIHANA UPPER 1052	A	6.44	.10	.10	.25	.45	.63	.03	.35	.43	.47	.01	.05	.97	.91	.45	.33	.20	.62	.01		.01	.01	.28	.02	.01		.01	.02	.12	*	*		
WAIHANA 943	A	.14	*	.09		.35	.25	.35	*	*	.35		.41		*	*	.77	.10	.03	.07	.05			.07	*	*		.12	.04	*	*	*		
WAIKAE 947	A	.41	*	.09		.35	.25	.35	*	*	.35		.41		*	*	.77	.10	.03	.07	.05			.07	*	*		.12	.04	*	*	*		
ISLAND OF OAHU																																		
BERETANIA PUMPING STA	A	.38	.01	T		.02											.09	.06	T		.06								.04			*		
CAMPBELL IND PK 702.5	A	.07	*	*		.07																											*	
CAMP 84 807	A	.45	*	.06								.29		*	*	*	.01	*	*		*	*	*	.06				*	*	*	.03	*	*	
CHURCH COLLEGE LAIE	A	2.47	.09	.05		.02				.34		.09	.13	.13	.13	.13	.01	.56	.02		.01	*	*							.75		*	*	
COCONUT ISLAND 840.1	A	.95	.01	.15		.02				.07				.06	.30		.01	.08							.04						.21	*	*	
EWA PLANTATION 741	A	.11	*	.26	*	.04		*	*	.03				*	*	*	.04				*	*	*	.05	*	*	.02	*	*	*	.07	*	*	
HELEMANU INTAKE 881	A	4.22	*	.26	*	.04		*	*	.03				*	*	*	.04				*	*	*	.05	*	*	.04	.02	*	*	*	.12	*	*
HOKULOA 725.2	A	1.11	*	T	T			*	*	.56	.32	*	2.93	*	*	*	.55	*	*		*	*	*	.05	*	*	.04	.02	*	*	*	.12	*	*
HONOLULU OBSERV 702.2	A	.11	*	T	T			*	*	.56	.32	*	2.93	*	*	*	.55	*	*		*	*	*	.05	*	*	.04	.02	*	*	*	.12	*	*
HONOLULU WSD 703	R	.26	T	T	T				.01			T	.09	.01	.05		T	.02	T		T		T	.01	T	T	T	T	.07	T		*		
HONOLULU SUBSTA 704	R	.28				.01			.11					.09	.08	.03		.04			.04									.01		*	*	
M S P & EXP STA 707	R	.50	.02	T		.05																												

HAWAII
AUGUST 1971

Day of Month

See reference notes following Station Index

DAILY PRECIPITATION

Continued

HAWAII
AUGUST 1971

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAWAUNI LOWER 193	A	3.83	.	.	.	.	.	.38	.	.	.	.	.	.	.13	.	.	.	.	.	.	3.00	.	.	.	.	.	.	.	.	.	.
KEAAU 92	A	3.02	.01	.16	.27	.1114	.0701	.09	.06	.	.	.03	.07	.11	.05	.32	.	.03	.19	.57
3-EALAKEUA 26.2	A	3.50	.62	.08	.0306	.09	.27	.50	1.27	.01	.	.22	
KEHENA 181.2	A	20.25	20.25	
KILOAKAA A & F 6	A	1.20	
KIPA 89.2	A	4.34	.05	.56	.22	.12	.01	.	.	.	.	.	.03	.04	.18	.	.	.	.	.88	.42	.22	.	.02	.12	.14	.24	.07	.24	.	.26	.51
KOMALA MAULILI 176	A	1.59	.	.41	.03	.02	.	.	.	.	.	.	.	.28	.09	.	.	.	.88	.42	.22	.	.02	.12	.14	.24	.07	.24	.	.26	.51	
KOMALA MISSION 175.1	A	1.18	.	.08	.03	.	T	.	.	.	.	.	.	.26	.13	.05	.02	.06	.27	.06	.	.05	.	.	.	.	.	.02	.	.07	.12	.02
KOJAWA LOWER 196	A	2.34	.	.	.	.	.18	.	.	.	.	.	.	.	.13	.05	.02	.06	.27	.06	.	.05	.	.	.	.	.	.02	.	.07	.12	.02
KONA (KAILUA) 68.3	A	.86	.	.	.	.	.	.	.	.	.36	.13	.25	.	.05	.	.	.	.	.	1.93	.	.	.	.	.	.	.03	.18	.	.	.
KONA VILLAGE 93.8	A	.19	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.10	.	.	T	.	.	.	.
KUKAJAU 222	A	1.54	.08	.23	.10	.03	.	.	.	.	.	.03	.02	.	.04	.	.	.40	.40	.01	.	.01	.02	.07	.	.	.	.02	.	.	.05	.03
KUKUIHALE HIC 199	A	.68	.	.19	.03	.	.	.	.	.	.	.07	.01	.01	.	.	.	.35	.08	.	.	.	.	.	.	.	.	.	.	.	.18	.
KUKUIHALE MILL 206	A	.63	.	.19	.02	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.01	.01
KULANI CAMP 79	A	2.81	.05	.20	.05	.04	.	.	.	.	.08	.50	.01	.15	.13	.	.	.38	.75	.04	.	.03	.	.14	.01	.01	.05	.	.	.	.08	.11
KULANI MAUKA 76	A	.37	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KULANI SCHOOL SITE 78	A	2.67	.	.	.	.	.	.40	.	.	.	.	.	.	.	.84	.	.37	.	.	.	.	1.15	.	.	.	.	.	.	.	.	.
LANIHAW 68.2	A	3.41	.	.	.	.	.	.05	.02	.48	1.45	.86	.	.	.	.13	.	.	.	.	.	.	.	.	.	.	.	.	.28	.42	.	.
MAKALAU 103	A	.38	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MAUKA 2	A	1.60	.	.30	.20	.	.	.	.	.	.	T	.	.50	.	.	T	.	.	.	.	.	.	.	.30	.	.	.	.	.	.30	.48
MAUNA LOA SLOPE 085	A	.11	.	.	.	.	.05	.	.04	.01	.	.	.	.	.	.	.	.01	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MIDDLE HOLUALOA 68.1	A	2.21	.	.	.	.	.	.	.	.	1.50	.	.	.	.	.	.	.01	.	.	.	.	.	.	.	.	.	.	.	.	.71	.
MIDDLE PEN 147.1	A	.00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MOAULA 18	A	.22	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MOUNTAIN VIEW 91	A	3.34	.02	.40	.18	.06	.	.	.	.	.	.	.05	.23	.	.	.	.43	.90	.03	.07	.	.11	.	.05	.02	.12	.10	.	.02	.14	.41
NAALEHU 14	A	.29	.	.	.	.	.	.	.	.23	.	.	.05	T	.	.	.	1.35	.	.	.	.	.	.	.	.	.	.	.	.01	.	.
NAPOOPOO 28	A	4.55	.	2.4649	1.352203	.	
NAULU FOREST 38.6	A	1.17	.	.12	.02	.	.	.	.	.	.	.	.	.	.	.	.	.10	.30	.	.	.03	.	.01	.03	.05	.	.02	.	.12	.20	.
NIULILI 179	A	1.71	.11	.22	.20	.16	.	.	.	.	.01	.10	.06	.01	.	.	.29	.41	.01	.	T	.	.	.	.	.	.	.	.01	.02	.01	.01
OOKALA 223	A	1.71	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
OPINIHAW 2 24.1	A	3.25	.09	.	.	.11	.23	.04	.45	T	.26	.06	.08	.81	T	.09	.25	T	.	T	.	.17	T	T	.01	.41	.02	T	.	.17	.			
ORCHID LANE EST 91.5	A	3.55	.	.	.	.	.63	.	.	.	.	.	.	.01	.89	.	.	.46	.11	.	1.45	.	.	.	.	.	.	.	.58	.	.	.
PAAHUA 217	A	.83	.02	.07	.02	.03	.	.	.	.	.	.	.03	T	.	.	.46	.11	.	.	.	.	.01	.01	.05	T	.01	.	.	.	.04	T
PAAUULO 221	A	.62	.	.	.	.	.	.	.	.	.	.	.35	T	.01	.	.27	.18	.	.	.	.01	.	.	.	.	.	.02	.	.	.	.
PAHALA 21	A	.38	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PAHUA 65	A	4.57	.02	.26	.34	.23	.11	.	.	.	.	.04	.11	.39	.	.	.58	1.10	.07	.05	.07	.06	.	.03	.03	.07	.23	.	.04	.23	.51	
PAKAO 37	A	1.27	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PAPAIKOU 144.1	A	3.41	.22	.35	.12	.08	.	.	.	.	.	.07	.11	.24	.02	.	.67	.72	.21	.03	.04	.06	.	.07	.04	.08	.17	.	.05	.06	.	
PAPAIKOU MAUKA 140.1	A	5.23	.08	.19	.39	.04	.06	T	.	.	.	.05	.18	.10	.12	.	1.18	.36	.41	.02	.01	.08	.10	.06	.01	.06	.37	T	.32	.16	.	
PEPEKEO MAKAI 144	A	3.08	.04	.09	.42	.01	.	.	.	.	.	.	.	.	.	.	.33	1.01	.03	.06	.07	.20	.06	.	.01	.14	.15	.	.14	.08	.	
PIIMOHUA 89	A	4.40	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
POHAKULOA 107	A	.47	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUAKO 95.1	A	.01	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUU KIME 120	A	.44	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUU LAU 102.1	A	.58	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUU LEHUA 73	A	.90	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUU MALI 113	A	.30	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUU OO 82	A	1.78	.01	.07	.13	T	.	T	.	.	.17	.14	.03	.02	.23	T	.23	.54	.	.	.	.	.	.	.	.	.	.	.	.	.	.96
PUU WAHAA 94.1	A	.62	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.30
SADOLE ROAD 1 84	A	4.00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.30	.04
SOUTH POINT CORRAL 3	A	.14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
UNIKOA 118	A	.74	.07	.07	.010204	.	.	.28	.1202	.11	
UPOLU POINT USCG 159.2	A	.97	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.06	.03	.	.	.	.	.	.	.	.	.	.	.	.	.04
WAIKAEA SCO 88.2	A	3.57	.02	.39	.25	.05	.	.	.	.	.	.	.79	.24	.23	.	.80	.71	.05	.	.08	.	.21	.	.04	.18	.	.	.	.28	.04	

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
							02	08	14	20									
HILO WSO 87	2	0.5	6.2	17	NE	13	84	71	63	80	2	7	8	1	0	0	18	53	5.9
HONOLULU WSFO 703	6	12.1	14.0	29	NE	25+	71	66	53	66	12	7	0	0	0	0	19	80	4.9
KAHULUI WSO 398	4	12.9	13.9	31	E	18+	85	68	51	72	3	4	1	0	0	0	8	84	3.0
LIHUE WSO 1020.1	6	9.5	11.3	24	E	02	79	72	62	75	8	9	4	0	0	0	21	72	5.3

DAILY TEMPERATURES

HAWAII
AUGUST 1971

Station		Day of Month																																Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
• • •																																		
ISLAND OF KAUAI																																		
KANALOHILU HULU 1075	MAX MIN	70 57	70 57	73 57	74 59	70 56	71 50	70 53	70 50	71 50	69 49	74 52	76 57	76 58	71 57	77 53	70 59	73 58	74 57	75 57	72 54	71 54	72 54	73 51	74 50	73 51	76 50	77 50	71 49	73 52	75 55	78 57	72.9 54.0	
KILAUEA POINT 1133	MAX MIN	81 73	80 73	80 72	80 69	80 72	81 73	81 72	81 72	82 74	81 73	80 72	82 73	81 73	81 73	82 74	83 73	82 74	83 73	82 74	81 73	82 74	82 73	82 74	82 73	84 74	81 73	82 74	82 73	82 74	82 73	82 74	81.5 73.0	
LIHUE WSO 1020.1	MAX MIN	85 75	85 72	85 73	85 73	85 72	85 71	84 71	86 70	85 70	85 71	86 77	86 77	86 75	85 72	86 78	87 73	86 75	87 75	86 75	86 76	86 74	87 73	86 76	87 76	86 76	85 73	86 71	85 71	86 76	86 76	87 77	85.8 74.0	
MAKAHUEA POINT 940.1	MAX MIN	85 71	83 69	84 70	84 71	84 71	86 71	87 72	87 71	90 71	87 71	89 75	86 72	86 70	80 71	87 71	86 72	87 72	86 72	86 72	85 73	87 75	87 73	85 73	88 71	86 70	85 71	85 70	84 70	88 72	87 77	87 73	86.0 72.1	
MANA 1026	MAX MIN	90 66	90 67	88 68	89 71	90 69	89 68	85 68	88 68	88 70	90 70	84 68	85 70	89 68	88 68	89 68	89 67	91 67	90 68	88 67	89 67	88 67	89 68	89 67	87 67	90 66	91 65	90 69	90 69	90 68	91 69	90 69	88.8 67.9	
NIU RIAGE 1035	MAX MIN	83 62	85 64	84 63	83 64	84 64	80 63	82 61	83 63	79 61	80 63	78 63	84 63	85 63	82 63	84 65	83 64	85 63	84 63	84 63	85 63	84 64	85 64	84 65	85 70	85 65	84 66	85 66	85 67	83 66	86 66	84 63	83.4 64.1	
WAIAMI LOWER 1054	MAX MIN	81 64	80 66	76 67	78 68	79 66	79 66	79 62	79 61	79 62	80 62	79 64	79 68	60 68	78 67	79 68	79 66	79 68	79 68	78 69	78 64	79 66	79 65	80 65	80 65	80 66	82 66	80 66	82 64	81 61	81 66	82 65	79.5 65.5	
• • •																																		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN		85 66	85 68	85 70	86 65	83 64			83 64	83 67	84 66	86 68	87 68			87 68	87 70	86 71	86 69	87 68			86 66	86 66	86 66	86 66	87 66			87 66	87 67	85.6 67.1	
HONOLULU WSO 703	MAX MIN	84 71	84 71	85 73	88 72	86 73	86 72	87 70	85 71	84 72	86 71	86 74	87 74	87 74	86 72	87 75	86 74	85 73	87 74	87 74	87 73	87 73	87 73	88 72	88 73	87 72	88 68	87 70	88 73	88 74	88 73	86.5 72.5		
HONOLULU SUBSTA 704	MAX MIN	81 73	82 73	82 73	84 72	83 73	84 74	83 73	82 74	81 74	83 74	83 75	83 76	64 76	83 72	84 76	82 75	83 76	83 77	83 76	81 74	82 74	81 75	81 74	82 74	81 75	83 74	83 74	83 74	83 76	83 76	83 76	82.6 74.3	
KAHUKU 912	MAX MIN		84 69	84 70	85 71	84 74	85 70		84 68	86 74	85 74	85 74	85 73			85 73	84 72	84 71	84 72	84 74			84 74	83 76		84 72	85 74	85 74	84 66		85 72	85 74	84.5 72.0	
KANEHE MAUKA 781	MAX MIN	82 72	82 68	82 74	83 69	83 70	85 69	83 68	84 69	84 70	82 70	84 71	83 74	89 72	83 73	83 74	85 74	84 74	81 73	83 75	83 71	82 71	83 73	82 73	84 73	84 70	82 70	83 74	83 70	85 70	86 70	81 72	85 72	83.4 71.3
LUALUALEI 804	MAX MIN	86 70	86 71	86 74	85 74	87 68	88 67	86 67	86 68	87 68	83 69	85 71	88 75	89 75	86 71	88 71	87 71	86 65	83 65	87 65	89 73	86 71	88 73	87 72	87 73	89 76	87 70	89 70	88 72	89 78	89 71	90 71	87.0 70.8	
MAKAPUU POINT 724	MAX MIN	79 69	79 69	78 69	79 81	80 70	82 70	82 72	83 73	83 73	84 69	84 70	79 72	80 69	80 70	82 69	80 74	81 70	81 70	79 69	80 70	79 70	79 70	79 70	80 70	80 70	79 71	82 70	82 73	79 69	80 73	80 69	80.4 70.5	
OPAULA 870	MAX MIN	85 67	90 63	82 63	83 62	85 63	85 65	84 63	90 66	86 65	83 63	84 64	85 64	84 63	85 63	85 63	80 65	80 65	81 67	81 65	80 66	85 66	80 66	80 66	80 64	84 65	84 66	82 62	84 62	84 65	84 64	83.4 64.3		
PRI WAIHANA 820.2	MAX MIN	84 67	86 66	85 68	83 67	86 63	90 62	87 61	86 63	89 62	83 64	86 62	86 62	86 67	85 66	81 65	87 65	85 67	84 68	86 66	84 66	84 66	85 66	86 66	84 63	85 63	86 65	86 65	88 66	88 66	88 65	87 65	85.7 65.0	
WAIALEE 896.3	MAX MIN																																	
WAILUA 847	MAX MIN	85 69	84 66	85 65	85 67	88 62	88 62	89 63	88 63	85 66	85 64	86 62	86 64	87 65	86 66	87 68	87 66	87 68	85 67	85 65	86 66	86 65	86 66	85 63	86 63	88 62	86 63	88 62	85 64	89 65	87 65	87 65	86.3 64.7	
WAIKIKI 717.2	MAX MIN	86 73	85 71	85 73	85 71	86 72	85 71	87 69	86 71	85 71	86 72	87 73	87 73	87 71	87 73	87 73	87 74	87 75	87 74	87 75	87 72	87 72	86 72	88 74	87 74	87 71	87 71	87 70	89 68	89 73	87 73	87 69	86.6 71.4	
WAIMANALO EXP FARM	MAX MIN	85 73	84 72	84 71	85 69	86 72	85 68	86 69	85 70	85 71	83 70	82 71	84 73	84 74	83 72	85 74	86 73	85 74	84 74	85 74	84 70	85 72	84 72	84 72	84 72	85 74	85 73	88 69	85 72	85 74	85 73	85 73	84.6 71.8	
• • •																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	83 74	81 70	82 70	82 71	84 68	85 67	85 68	85 76	85 74	83 69	84 69	82 70	85 71	84 70	86 76	85 70	84 70	83 73	84 69	84 70	83 70	83 74	82 69	82 69	83 69	82 69	83 69	83 67	84 70	83 70	84 70	83.5 70.4	
• • •																																		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	78 68	79 64	78 65	78 66	78 66	79 66	79 66	78 63	78 65	77 62	79 63	75 68	76 68	79 67	81 63	80 66	79 67	79 67	79 67	78 67	78 67	76 63	77 62	77 66	77 66	79 64	79 67	78 64	79 68	79 64	78 62	76 62	78.1 65.5
• • •																																		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	66 47	65 44	64 46	64 49	68 41	60 47	64 47	65 43	65 43	64 42	65 42	65 46	63 45	66 45	70 53	67 46	52 45	63 47	64 46	66 46	63 40	64 49	68 48	65 38	62 40	62 42	67 43	67 45	66 51	66 50	69 46	64.7 45.2	
HALEAKALA SUMMIT 338.4	MAX MIN	50 44	59 40	60 42	54 41	58 42	56 38	56 41	54 39	52 38	54 40	58 43	58 39	59 39	51 40	51 37	62 35	50 35	52 37	52 38	62 38	62 38	62 45	62 48	60 39	61 49	57 41	57 42	58 42	58 42	62 44	62 44	56.8 40.7	
HANA AIRPORT 355	MAX MIN	85 66	86 66	85 65	85 66	84 64	85 64	87 65	83 63	87 63	86 64	86 68	88 65	85 64	86 65	87 69	86 68	86 67	84 65	88 69	87 66	86 66	86 65	87 67	87 67	84 64	88 62	86 62	87 67	86 66	87 66	87 66	86.2 65.6	
KAANAPALI AIRPORT	MAX MIN	86 66	84 66	85 65	84 65	85 63	84 64	83 65	84 64	83 64	84 64	84 69	85 66	85 67	84 68	85 68	86 67	85 67	86 73	85 70	85 73	85 65	86 65	85 65	84 65	85 65	86 68	83 66	85 67	85 66	85 64	85 64	84.7 66.5	
KAHULUI WSO 398	MAX MIN	88 71	88 69	87 72	89 70	88 64	89 63	89 63	88 63	89 65	91 64	89 63	87 61	87 69	92 65	89 68	88 72	88 71	88 73	88 70	89 71	88 70	88 70	87 67	88 67	87 67	88 67	88 67	85 62	88 65	89 67	86 61	88.1 67.2	
KAILUA 446	MAX MIN	78 66	78 67	78 67	79 68	81 66	81 66	79 64	80 65	80 65	82 68	80 67	80 69	80 68	79 68	80 70																		

Continued

DAILY TEMPERATURES

HAWAII
AUGUST 1971

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX MIN	77 56	76 56	75 57	76 56	75 55	74 56	79 57	75 58	77 57	75 58	73 57	77 58	79 59	72 57	78 58	77 60	77 59	79 60	78 57	78 57	78 58	73 57	76 57	76 56	77 57	75 55	75 56	74 54	73 57	77 58	75 57	76.0 57.1
LAHAINA 361	MAX MIN	87 68	89 68	88 68	89 69	86 67	86 67	86 68	86 69	87 68	86 67	86 66	88 70	89 70	87 67	86 70	88 68	89 71	89 70	88 69	87 68	88 67	88 68	87 68	88 67	88 67	89 67	88 68	89 68	89 69	89 70	89 67	87.6 68.2
WAILUKU 386	MAX MIN	82 69	82 69	82 71	82 71	82 70	83 70	83 68	84 68	81 70	82 71	83 67	84 67	81 70	82 71	85 67	82 71	82 72	83 72	83 72	83 72	82 71	82 72	82 72	82 72	82 71	82 71	82 72	82 72	81 69	82 71	82 71	82.4 70.2
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX MIN	82 68	81 66	82 67	83 67	82 67	83 65	83 65	82 67	82 65	84 64	84 65	83 67	84 67	80 65	84 72	84 67	82 67	83 70	83 69	84 71	84 71	83 71	69 55	67 50	69 54	69 53	72 54	72 54	73 54	74 52	72 52	71.1 53.2
HAWAII VOLCNS NP HO 54	MAX MIN	70 52	67 53	68 54	69 55	74 52	72 55	73 54	72 53	74 54	73 50	73 52	71 54	67 52	73 51	74 52	73 55	69 55	70 55	71 54	71 53	71 53	69 55	67 50	69 54	69 53	72 54	72 54	73 54	74 52	72 52	71.1 53.2	
HILLO WSO 87	MAX MIN	84 68	82 68	84 80	84 69	86 67	85 63	86 66	88 66	88 66	87 68	87 67	86 70	88 67	91 67	88 70	85 70	85 69	86 69	85 70	84 66	86 71	85 71	85 67	86 68	86 68	85 66	86 65	89 66	87 64	83 70	86 64	85.6 67.6
KAINALIU 73.2	MAX MIN	75 63	76 66	79 65	77 64	78 62	80 63	79 62	78 63	79 65	77 62	77 61	78 63	78 64	77 61	79 62	78 63	77 61	79 64	78 64	78 63	78 62	76 63	76 62	78 60	78 62	77 63	77 62	76 61	81 65	80 62	80 63	78.0 62.7
KAMUELA 192.2	MAX MIN	71 60	73 58	73 58	74 59	71 58	78 58	80 57	78 58	79 55	78 50	76 52	78 58	76 55	74 55	73 58	74 60	73 60	74 60	73 60	72 59	72 60	73 60	74 60	75 59	73 60	72 57	72 53	74 50	76 53	74 56	75 58	74.5 57.5
KEAAU 92	MAX MIN	81 65	81 67	80 66	81 66	81 65	83 65	83 67	84 66	84 66	84 63	84 66	84 65	82 66	84 66	86 66	85 67	82 67	82 67	82 67	83 64	83 64	83 64	82 68	82 65	82 65	79 64	77 66	84 65	84 65	79 65	82.5 65.5	
KEALAKEKUA 26.2	MAX MIN	74 63	77 65	78 65	76 64	79 62	79 64	79 64	77 66	77 66	75 64	77 62	78 64	78 64	80 63	80 64	78 65	78 65	78 63	79 64	78 65	78 63	80 64	79 64	79 63	80 63	79 64	80 63	77 62	77 65	80 65	82 65	78.4 63.8
KOHALA MISSION 175.1	MAX MIN	80 69	80 67	80 68	81 69	81 66	82 66	82 65	83 65	83 65	84 65	84 65	82 68	81 67	80 68	81 69	83 67	82 66	81 69	82 66	83 68	82 68	82 68	84 69	83 69	84 69	83 68	84 67	84 65	84 62	80 69	82.2 67.5	
KONA (KAILUA) 68.3	MAX MIN	86 69	85 73	83 73	85 59	85 71	85 71	86 71	86 69	86 69	84 69	86 69	86 69	83 70	85 69	85 69	85 72	85 72	85 72	85 72	85 72	85 72	86 68	85 68	85 70	85 71	83 72	83 71	86 71	86 73	86 73	84.9 69.8	
KULANI CAMP 79	MAX MIN	67 49	67 49	62 50	65 49	67 43	67 44	68 48	69 45	70 44	68 46	67 43	66 46	60 45	67 42	67 46	68 51	68 50	68 50	64 46	62 48	62 47	62 50	62 44	62 48	64 44	66 44	65 51	67 44	67 44	68 40	65 42	65.7 46.5
MAUNA LOA SLOPE OBS	MAX MIN	57 37	58 38	57 39	53 33	53 32	50 35	49 31	50 29	49 31	55 38	59 40	60 40	52 39	53 33	47 32	48 33	52 31	49 32	50 33	59 35	59 35	59 35	56 36	56 35	55 36	56 37	53 36	54 37	57 38	60 42	58 37	54.2 35.7
MOUNTAIN VIEW 91	MAX MIN	77 61	77 61	75 62	77 63	77 59	80 58	82 58	82 58	81 58	81 58	81 61	81 61	76 60	82 60	82 60	82 61	82 60	82 60	82 63	79 63	79 60	79 59	79 59	79 59	78 59	77 59	70 58	80 58	81 58	81 58	77 58	79.1 59.7
NAALEHU 14	MAX MIN	82 63	82 63	80 66	80 66	81 64	80 67	80 67	82 65	82 65	81 66	81 69	81 67	78 69	81 69	81 67	82 67	82 65	82 70	81 67	82 67	82 67	81 67	81 67	81 68	81 66	81 65	81 65	84 65	84 65	80 68	81.1 66.4	
OOKALA 223	MAX MIN	80 64	80 65	80 64	80 65	79 68	82 62	76 68	74 58	82 66	81 65	82 65	82 67	83 67	81 68	82 68	83 67	81 66	82 69	81 69	83 66	82 66	82 66	82 66	82 66	82 66	78 66	82 66	82 66	83 66	82 69	81.1 66.3	
OPIHIHALE 2 24.1	MAX MIN	79 61	78 62	80 62	78 61	79 62	80 63	81 64	80 65	79 62	78 63	77 64	76 64	77 65	82 65	82 60	83 61	82 62	81 62	81 62	82 61	82 62	80 60	81 62	82 64	79 60	80 62	81 60	81 62	81 65	81 65	80.0 61.9	
PAHALA 21	MAX MIN	84 61	82 63	83 63	83 61	82 62	84 62	84 62	83 62	83 62	83 63	82 63	81 63	84 62	87 66	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	82 65	83.2 62.6
PUAKO 95.1	MAX MIN	87 71	88 74	88 73	87 71	87 69	86 69	87 72	88 70	85 70	86 68	87 72	86 70	87 71	88 74	86 74	87 72	88 73	88 69	86 69	86 69	87 72	88 72	88 69	87 69	87 69	87 69	88 69	87 69	88 70	87 73	87.1 70.7	
UPOLU POINT USCG 159.2	MAX MIN	83 73	84 67	80 70	85 67	85 67	85 69	84 71	84 73	84 73	86 65	85 70	84 70	81 73	83 68	83 73	84 69	84 72	82 67	84 72	84 65	84 70	82 72	77 73	84 72	83 68	84 70	84 69	83 71	85 70	84 71	83 69	83.4 70.1

EVAPORATION AND WIND

Station		Day of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP WIND MAX MIN	.37 40 92 66	.28 53 90 65	.46 50 92 66	.44 50 92 66	.37 31 94 66	.37 32 95 66	.30 33 92 66	.30 38 92 66	.30 29 92 66	.30 32 97 68	.29 34 92 66	.36 45 94 68	.35 33 93 68	.29 39 90 68	.33 52 92 68	.38 48 94 67	.35 47 91 67	.39 59 92 67	.39 60 92 66	.34 45 91 66	.39 45 92 65	.30 42 91 65	.38 45 91 65	.30 42 91 66	.40 38 92 66	.30 36 92 66	.33 38 93 66	.20 36 91 66	.30 33 90 66	.32 37 92 65	.35 37 93 65	10.53 1272 92.2 66.3

See Reference Notes Following Station Index

HAWAII
AUGUST 1971

STATION INDEX

HAWAII
AUGUST 1971

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL	
ISLAND OF HAWAII												
HAUNA LOA SLOPE OBS	0198	03	HAWAIIA	5 19 32	155 35	1114	HTD	HTD				HAUNA LOA OBSERVATORY
MIDDLE KONA SLOPE OBS	0208	04	N KONA	4 19 37	155 58	975	HTD	HTD				KONA EXPERIMENT STA
MIDDLE PEN 147.1	0270	01	N KONA	1 20 08	155 50	1380	VAR	VAR				KANOA RANCH
MOAULA 18	0607	03	KAU	3 19 11	155 30	600	VAR	VAR				HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	0552	02	PUNA	2 19 33	155 07	1230	HA	HA				PUNA SUGAR CO
NAALAEU 14	0588	03	KAU	3 19 04	155 35	675	HA	HA				HUTCHINSON SUGAR CO
NAPOKOPON 28	0697	04	S KONA	4 19 28	155 55	395	HA	HA				KONA EXPERIMENT STA
NAULU FOREST 38.6	0731	02	PUNA	2 19 19	155 08	1400	VAR	VAR				HAWAII VOLCANOES NAT PK
NTULU 179	0806	01	N KONA	1 20 14	155 45	75	HA	HA				KONA SUGAR CO
ONALUA 223	7131	02	N HILLO	2 20 01	155 17	430	HA	HA				LAUPAEMOHO SUGAR CO
OPIMAHUA 2 24.1	7166	04	S KONA	4 19 16	155 53	1270	HA	HA				MISS C LEONARD
ORCHARD LAND EST 91.5	7185	02	PUNA	2 19 34	155 00	445	VAR	VAR				BOARD OF WATER SUPPLY
PAAUMAU 217	7204	01	HAWAIIA	1 20 08	155 25	415	HA	HA				PAAUMAU SUGAR CO
PAAULU 221	7312	01	HAWAIIA	1 20 03	155 22	800	HA	HA				HAWAIIA MILL CO
PAHALA 21	7421	03	KAU	3 19 12	155 29	870	HA	HA				HAWAIIAN AGRI CO
PANOLA 65	7457	02	PUNA	2 19 30	155 27	870	HA	HA				PUNA SUGAR COMPANY
PAKAU 37	7643	03	KAU	3 19 22	155 28	5000	HA	HA				HAWAIIAN RANCH CO, INC.
PAPAKOHI 144.1	7711	02	S HILLO	2 19 47	155 08	100	HA	HA				MAUNA KEA SUGAR CO
PAPAKOHI MAUKA 140.1	7721	02	S HILLO	2 19 47	155 08	1270	HA	HA				MAUNA KEA SUGAR CO
PEPEKEO MAUKA 144	8000	02	S HILLO	2 19 51	155 05	100	HA	HA				PEPEKEO SUGAR CO
PIIHONUA 89	8051	02	S HILLO	2 19 44	155 10	1730	HA	HA				STATE DIV OF FORESTRY
PONAKULUA 107	8063	02	HAWAIIA	2 19 48	155 32	6511	VAR	VAR				STATE DIVISION OF PARKS
PUNAKU 95.1	8186	03	KONA	5 19 59	155 30	5	HA	HA				ERWIN H. RAPP
PUNU KIHU 120	8393	01	HAWAIIA	1 19 54	155 24	7750	HA	HA				KUKAIAU RANCH CO
PUNU LAU 102.1	8452	05	HAWAIIA	5 19 50	155 38	7440	HA	HA				STATE DIV OF FISH-GAME
PUNU LEHUA 73	8440	04	N KONA	4 19 34	155 49	4880	HA	HA				W.M. GREENWELL RANCH
PUNU MALI 113	8515	01	HAWAIIA	1 19 58	155 26	6940	HA	HA				KUKAIAU RANCH CO
PUNU OJ 82	8550	02	S HILLO	2 19 46	155 23	6340	HA	HA				SON WINTERS
PUNU WAHAA 94.1	8555	03	N KONA	5 19 47	155 51	2520	HA	HA				LILLINGHAM RANCH INC
SADDLE ROAD 1 84	8590	02	S HILLO	2 19 42	155 12	2340	HA	HA				BOARD OF WTR SUPPLY

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-NONVOLCANIC 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 108, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index

No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates.

++ Highest observed one minute wind speed. This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C in Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin, if daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

* Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

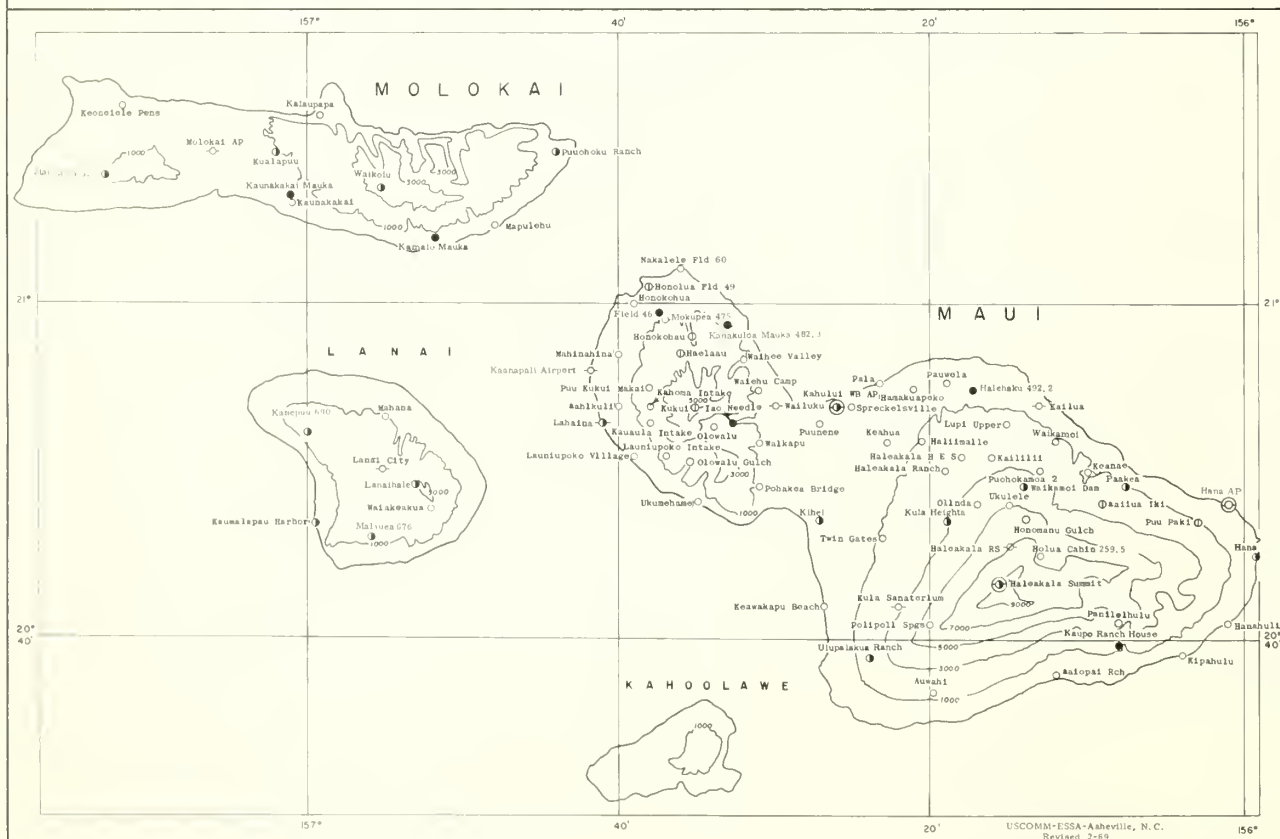
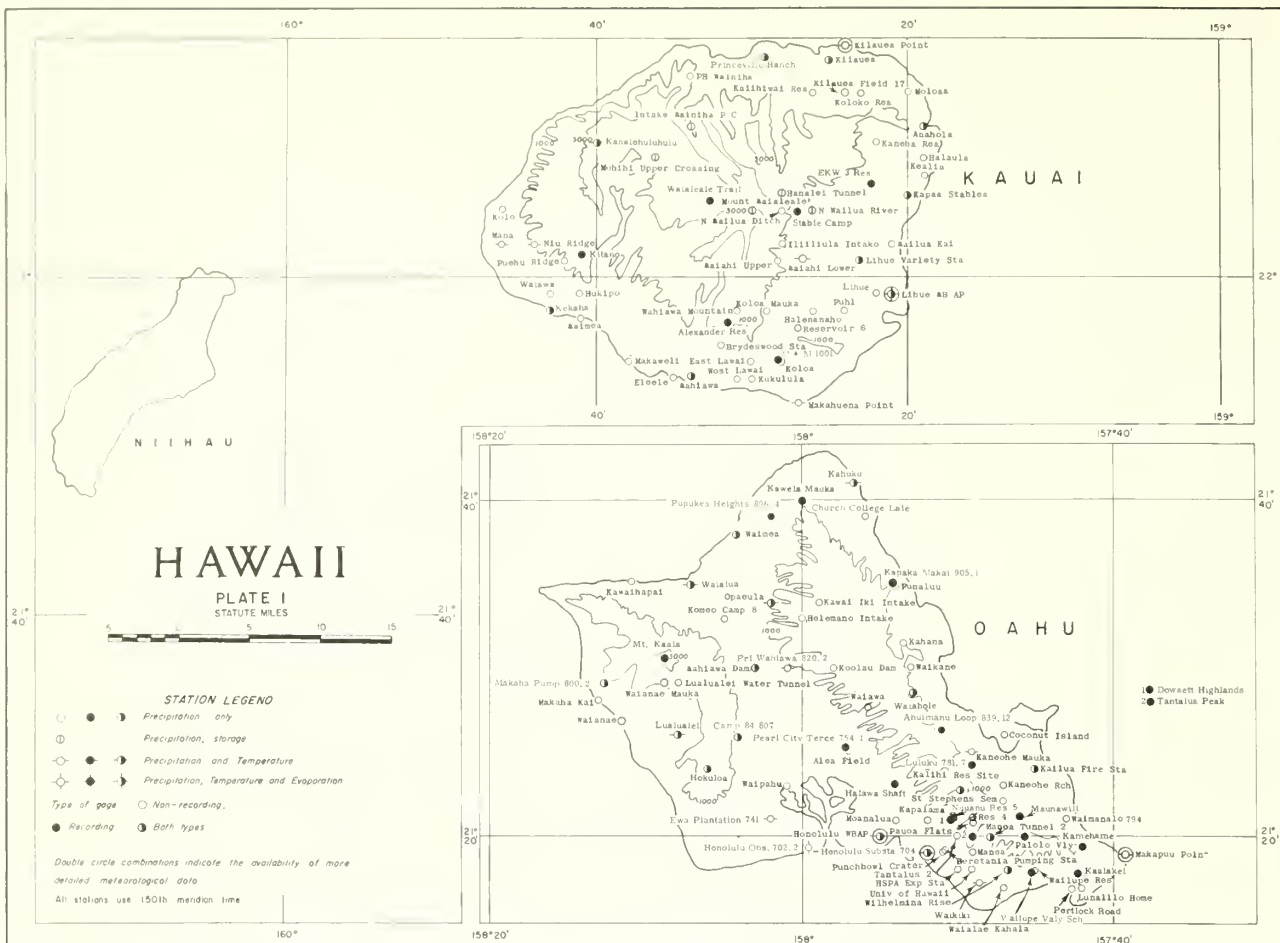
Information concerning the history of changes in locations, elevations, exposure, etc., of stations through 1957 may be found in the publication "Substation History" for this date, price 35 cents. Similar information for regular National Weather Service offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center

USCOM-NOAA-ASHEVILLE, N.C. 12/1/71-890



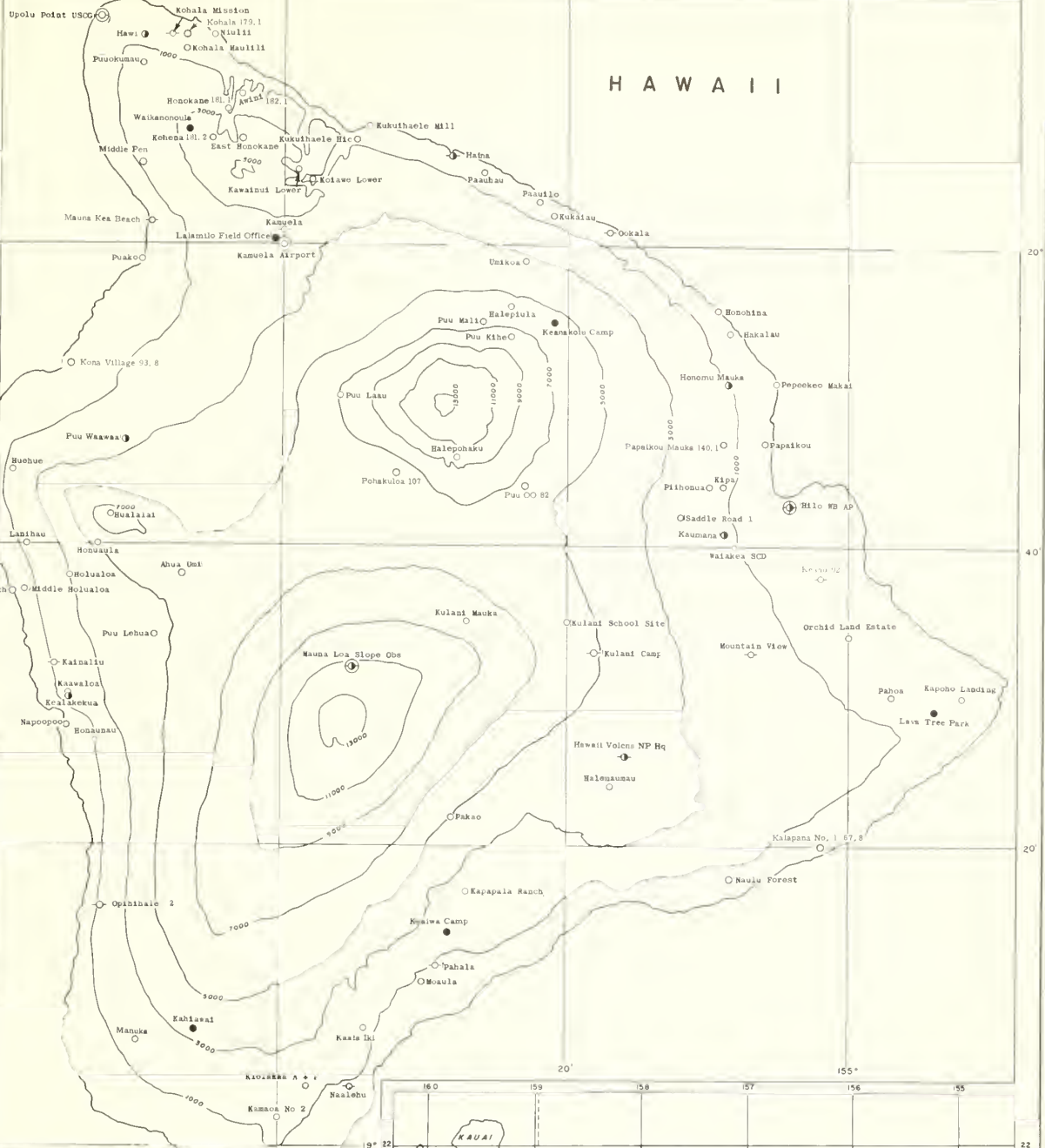
156°

40°

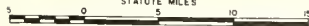
20°

155°

HAWAII



HAWAII

PLATE 2
STATUTE MILES

STATION LEGEND

- ● ○ Precipitation only
- ⊕ Precipitation, storage
- ⊙ ● ○ Precipitation and Temperature
- ⊕ ● ○ Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording,
- Recording ○ Both types

Double circle combinations indicate the availability of more detailed meteorological data.
All stations use 150th meridian time.

CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

SEPTEMBER 1971

Volume 67 No. 9

JAN 21 1972

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature										Precipitation														
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Departure From Normal	Greatest Day	Date	Snow, Sleet		No. of Days					
											Max. Min.								Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More		
											31° or Above	32° or Above	33° or Above	34° or Above	Total											
* * * ISLAND OF KAUAI																										
ANAHOLA 1114		A	73.0	54.9	64.0		78	22+	48	16+		0	0	0	0	3.35	1.22		.54	25	.0	0		7	1	0
KANALOHULU 1075																2.24					.0	0			0	
KAPAA STABLES 1104		A														2.65					.0	0			0	
KILAUEA FIELD 17 1135		A														3.71	- 1.57				.0	0			0	
KILAUEA POINT 1133			83.5	73.5	78.5		94	19	70	29+		1	0	0	0	3.19		.80	24	.0	0		11	1	0	
KOLOA 936																5.70	1.32				.0	0				
LIHUE WSD 1020.1		//R	85.4	74.5	80.0	- 1.9	87	23+	70	15		0	0	0	0	2.69	.61	.76	24	.0	0		8	1	0	
MANA 1026			87.1	68.2	77.7	- 2.2	92	10	65	27		3	0	0	0	.86	.07	.18	6	.0	0		5	0	0	
N WAILUA DITCH 1051																14.49				.0	0					
PH WAINIHA 1115		A														4.00	- 2.07	.44	5	.0	0		13	0	0	
PUEHU RIDGE 1040																2.18		.91	24	.0	0		7	1	0	
WAHIKAWA 930		A														1.64	- .07			.0	0				0	
WAIAHI LOWER 1054			79.4	65.8	72.6		82	1	60	19		0	0	0	0	7.90		1.08	29	.0	0		21	9	1	
WAIMEA 947																.63	- .03	.26	20	.0	0		3	0	0	
ISLAND					74.6											3.95				.0						
* * * ISLAND OF OAHU																										
HONOLULU OBSERV 702.2		R	86.7	71.5	79.1	- .1	89	7+	68	14		0	0	0	0	.62		.36	24	.0	0		1	0	0	
HONOLULU WSPD 703																1.03	.04	.49	24	.0	0		3	0	0	
KAHUKU 912		A	84.8M	71.7M	78.3M	.1	86	20	67	14		0	0	0	0	2.15	.30	.73	24	.0	0			1	0	
KANEDHE MAUKA 781			83.3	71.3	77.3	.5	86	17+	69	25+		0	0	0	0	3.48	- .33	.60	8	.0	0		10	2	0	
KODIAU OAM 833		A														12.39	6.15	2.10	11	.0	0		18	9	3	
LUALUALEI 804		A	87.2	72.0	79.6		91	7	68	25+		1	0	0	0	1.36		.55	24	.0	0			1	0	
MAKAPUU POINT 724			80.5	70.8	75.7		84	26+	69	14+		0	0	0	0	.55	.16	.16	3	.0	0		3	0	0	
NUUANU RES 4 783																9.20	.67	2.68	24	.0	0		17	4	2	
OPAULA 870		A	82.1	65.2	73.7	.5	87	6	61	24+		0	0	0	0	1.50	- .94			.0	0			0		
PALOLO VALLEY 718		R														8.58	.15	2.36	24	.0	0		16	4	1	
PRI WAHIKAWA 820.2		A	85.3	65.8	75.6		88	15+	63	14+		0	0	0	0	2.90		.72	15	.0	0				0	
WAHIKAWA OAM 863		A														4.08		2.09	24	.0	0				1	
WAIHOLE 837		A														6.76	- 3.03	1.54	24	.0	0					
WAIKALE 896.3			86.9	64.7	75.8	- .5	89	23+	62	15+		0	0	0	0	1.25	.46	.52	26	.0	0		5	1	0	
WAILUA 847		A																		.0	0					
WAIKIKI 717.2			87.2	70.7	79.0		90	17	67	25+		1	0	0	0	1.79		.60	26	.0	0		3	1	0	
WAIMANALO EXP FARM			84.9	72.1	78.5		88	15	69	14+		0	0	0	0	2.30		1.21	24	.0	0		5	1	0	
WAIKAMU 750		A														2.47	1.39			.0	0					
ISLAND					77.3											3.67				.0						
* * * ISLAND OF MOLOKAI																										
KUALAPUU 534		A														.40	- .38			.0	0			0	0	
MAPULEHU 542																3.43	.83	.78	2	.0	0		13	1	0	
MAUNALO 511		A														1.89	.78			.0	0				0	
MOLOKAI AP 524			83.9	71.9	77.9		87	19	66	15		0	0	0	0	.10		.05	3	.0	0		0	0	0	
ISLAND					77.9											1.46				.0						
* * * ISLAND OF LANAI																										
LANAI CITY 672		A	78.0M	64.6M	71.3M	- .2	82	20	61	15		0	0	0	0	1.50	- .77			.0	0				0	
ISLAND					71.3											1.50				.0						
* * * ISLAND OF MAUI																										
HALFAKALA 8 E S 434		A														3.14	.84	1.07	3	.0	0		5	2	1	
HALEAKALA RS 338			63.5	45.4	54.5		70	1	41	20+		0	0	0	0	1.87		.30	3	.0	0		8	0	0	
HANA AIRPORT 355																1.99	.31	.42	3	.0	0				0	
HONOKOHUA 493		A														.37		.30	24	.0	0		1	0	0	
KAANAPALI AIRPORT			84.7	66.6M	75.7M		87	15	62	15		0	0	0	0					.0	0					
KAHULUI WSD 398		R	88.6	68.4	78.5	.1	92	18	64	16+		8	0	0	0	.25		.14	3	.0	0		1	0	0	
KAILUA 446			79.7	67.2	73.5	.2	81	21+	64	30		0	0	0	0	5.82	- 1.68	1.34	3	.0	0		16	2	1	
KEANAE 346		A														11.00	- 1.23			.0	0					
KIPAHULU 258																5.47	- 1.38	.70	24	.0	0		18	3	0	
KULA SANATORIUM 267			73.8	58.6	66.2	- .3	78	10+	56	27+		0	0	0	0	1.42	- .55	.42	14	.0	0		5	0	0	
LAHAINA 361			88.2	69.0	78.6		92	26	66	11		3	0	0	0	.21	- .08	.13	3	.0	0		1	0	0	
PAIA 406																.85	- .43	.21	4	.0	0		4	0	0	
WAILUKU 386		A	82.5M	71.2M	76.9M	- .9	86	27+	69	15+		0	0	0	0	.25	- .35	.17	3	.0	0		1	0	0	
ISLAND					72.0											2.72				.0						
* * * ISLAND OF HAWAII																										
HAINA 214			83.2	67.7	75.5	- 1.0	86	18	66	15+		0	0	0	0	.61	- 1.68	.17	29	.0	0		1	0	0	
HAWAII VOLCANES NP HQ 54			71.1M	54.1M	62.6M	- .7	75	17	49	22		0	0	0	0	4.63	- .46	1.58	21	.0	0			1	1	
HILO WSD 87			85.1	68.1	76.6	1.1	90	14	65	27+		1	0	0	0	8.63	.13	1.35	21	.0	0		16	5	3	
HUEHUE 92.1		R														1.07	- 2.16			.0	0		15	4	3	
KAINALIU 73.2		A	77.9	62.3	70.1		80	29+	60	23+		0	0	0	0	8.38	.78	2.25	23	.0	0					

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
SEPTEMBER 1971

Continued

continued

Station		Temperature										Precipitation												
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
											Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											30° or Above	31° or Below	27° or Below	23° or Below										
KEAAU 92	A	82.4	65.9	74.2	- .7	85	17+	64	11+		0	0	0	0	5.62	- 3.43	.96	28	.0	0		15	4	0
KEALAKEKUA 20.2		78.4	64.1	71.3		80	29+	62	23+		0	0	0	0	7.45		2.27	29	.0	0		13	5	1
KONA (KAILUA) 68.3		85.0M	70.0M	77.5M		88	1	67	24		0	0	0	0	3.42		1.11	2	.0	0				
KUKUIHAELE HIC 199															.71	- 2.08	.23	29	.0	0		3	0	0
KULANI CAMP 79		65.1	49.1	57.1		69	19+	45	16+		0	0	0	0	4.92		1.43	21	.0	0		14	1	1
PAHALA 21	A	82.3M	63.4M	72.9M	- .8	85	1	62	23+		0	0	0	0	3.18	.65	1.26	21	.0	0			2	1
POHAKULOA 107	A														.40				.0	0			0	0
PUAKO 95.1	A	85.8	70.6	78.2		87	27+	66	24		0	0	0	0	.34		.27	12	.0	0		1	0	0
PUU WAAHAA 94.1	A														2.37	.04	.75	14	.0	0		5	2	0
UMIKOA 118															.22	- 1.94	.08	14	.0	0		0	0	0
WAIKAE SCD 88.2															7.66		1.34	21	.0	0		16	6	1
ISLAND				71.6											3.73				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 94° ON THE 19TH AT KILAUEA POINT 1133, KAUAI

LOWEST TEMPERATURE: 33° ON THE 24TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 28.70 INCHES INCHES AT MOUNT WAIKAELE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 5 STATIONS

GREATEST ONE-DAY PRECIPITATION: 5.71 INCHES ON THE 21ST AT MOUNT WAIKAELE 1047, KAUAI

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

September saw the passing of what for some areas appears to have been their most severe dry spell in at least 70 years (see the June, July, and August 1971 issues of this publication).

As the month opened, water rationing was in effect in East Maui's Kula and Hana areas, water was being pumped from the Lower Kula into the nearly exhausted Upper Kula system, and Maui County was on the verge of asking the Governor to declare a drought emergency as a means of obtaining State and Federal funds. The ditch that conveys water from watersheds in the ordinarily wet mountains of windward East Maui to sugar plantations in the central valley, and is the main source for the Haiku-Makawao-Pukalani County water system, held only 22 million gallons of its 200-million-gallon capacity, and supplies for Kula from the new 50-million-gallon Piihola Reservoir above Makawao were estimated at only 35 days. About 60 percent of Kula's residents were suffering from water shortages, and growers of the vegetables, fruits, and flowers for which the area is noted had been seriously hurt.

On September 1, the Hana and Koolau Forest Reserves in eastern and northeastern Maui were closed owing to extreme dry weather and critical fire danger conditions, and on September 3, all hunting and recreation activities were forbidden in the Kula and Kahikiniui Forest Reserves on Haleakala's northwestern and southeastern slopes. The possibility of developing additional water from untapped springs above Hana was being seriously looked into as a longer-range solution to water deficits and even cloud seeding had been proposed as a means of inducing or augmenting rainfall over East Maui, but this was quickly dismissed owing to the uncertainty of the techniques and the unsuitability of the clouds.

Other regions of the State were dry as well. Unirrigated sugarcane on Kauai and Hawaii was showing the effects of deficient rainfall, and by midmonth it had become evident that papaya production, most of it on Hawaii Island, had been cut by half.

Meanwhile, however, from about the second or third day of the month, and particularly over the East Maui watershed, trade wind showers had begun to return and to fill the ditches and replenish the reservoirs.

By September 10, bans were eased on the use of

water for domestic purposes in the Hana area, although conservation was still being urged and lawn watering and car washing forbidden. On September 13, the Waikamoi Reservoir held 11 million gallons, and irrigation in the Kula area, restricted since mid-August to only 6 hours weekly (9 a.m. to 3 p.m. once a week), was raised to 8 hours: 8 a.m. to noon, twice weekly. Water haulage to 40 families at Kalae, Molokai, was discontinued, although, in contrast, water was still being trucked to several families in Hawaii Island's Papaikou section, an area whose average annual rainfall exceeds 150 inches.

On September 20, water restrictions in Hana ended entirely, although retained elsewhere on Maui and Molokai, while at the same time, rationing was imposed on Lalamilo Farms, in Hawaii Island's Waimea district, with irrigation permitted only between 7 a.m. and 5 p.m. daily. Also on September 20-21, Naalehu recorded a 24-hour rainfall of 1.47 inches and Hilo of 2.24 inches, not a great deal as rainfall in those localities goes, but their first substantial rains since May.

As the month continued so did the showers, and by September 27 irrigation everywhere along the Kula pipeline was extended to Monday through Saturday between 8 a.m. and noon, although the County Board of Water Supply warned that the drought and rationing still existed and permitted only minimal water use for lawns and cars.

In contrast to August, when all the islands but Kauai and Lanai had large areas with less than one-fourth their average monthly rainfall, only a scattering of gages showed similar deficiencies in September. Nevertheless, monthly rainfall totals were well below half the September means on Oahu's extreme southeastern coast, in Maui's central valley, and in the eastern and southwestern portions of West Maui, at lower elevations on Lanai and Molokai, and particularly in Hawaii Island's Waimea district and throughout Hamakua, at both lower and higher elevations.

Also worth noting during the month was the large funnel cloud visible for about 15 minutes to thousands of persons in Oahu's Pearl Harbor-Waipahu area on the afternoon of September 25. The cone-shaped funnel, unusually broad at the base, descended at least 1,500 feet earthward from the bottom of a cumulonimbus cloud, and then withdrew and faded away.

Saul Price
Regional Climatologist for Pacific Region
P. O. Box 3650
Honolulu, Hawaii 96811

MAWALL
SEPTEMBER 1971

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HAWAII
SEPTEMBER 1971

Continued

Station		Total	Day of Month																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF MOLOKAI																																			
A	KALAUPAPA 563	.54			.12	.21																													
A	KALANAKAIAI 536	.03																																	
A	KENELELE PENS 551	.00																																	
A	KALAPUHI 534	.40			.01	.04																													
A	MAPELUMI 542	3.43	.05	.78		.12	.10	.05		.05	.07	.05	.04				T	.04		.02	.03														
A	KAUNALOHA 511	1.89		.01	.02					.02	.07	.12																							
A	MOLOKAI AP 524	.10			.05		T	T					.01	*	*		.13	.03		.15			.03	.22		.52	*	*	*	*	.57				
A	PUDOHUKU RANCH 542.1	.85	.04	.24	.46	.11	.04	.05			.23	.18	.12	.08	.04		.22	.01					.07	.02	*	*	*	*	*	*	*	*			
A	WAIKOLI 540																																	.47	
ISLAND OF LANAI																																			
A	KANEPUU 690	.26			*	*	*	*																											
A	KAUMALAPAU HARBOR 658	.60								.03	*	.10								*	*	*	*	*										.12	
A	LANAI CITY 672	1.50		.01	T					.04	.01	.01	T						.14	.03	.14														
A	LANAIIHOLE 684	2.02																																	
A	MAHANA 694	.11	*	.01	*	*	*	*					.07																					2.02	
A	MALAEUA 676	1.32			*	*	*	*																										.64	
A	MAIAKEIPUA 685	2.25	*	*	*	*	*	*																										2.01	
ISLAND OF MAUI																																			
A	KAUWAHI-252	1.12																																	
A	HALEAKALA B E S 434	3.14	*	.05	1.07	.36	*	*		.07	.01	.05		.05	.10	.01				.23	.01														
A	HALEAKALA RANCH 432	.79			.56	*	*	*																											
A	HALEAKALA OS 338	1.67		.04	.30	.03	.05	.01		.01	.12	.10		.02	.11	.01																			
A	HALEAKALA SUMMIT 338.4	1.72			.30						.05	.02							.05	T															
A	HALLIHAILIE 423	1.04			.25	*	*	*		.32	.02	.02							.01																
A	HALEAKALA POKO 485	1.33	.03	.36	.27	.04	.05	.07		.07	.03	.32	.13	.68	.2	T																			
A	HANA 354	3.42		.03	.49	.04					.35	.40																							
A	HANA AIRPORT 355																																		
A	HANAHUI 1 281	3.34	*	.25	.18	.02				.04	.15		.20	.18	.01		.20	.08	.06	.09	.05	.10		.04	.18	.26	.04		.49	.35					
A	HOLUA CABIN 259.5	1.50	*		.33	*	.06	*			.15	*	*	*	.2				.18																
A	HONOKOHU 480	4.20	*		*	*	*	*			.15	*	*	*	.2																				
A	HONOKOHU 493	1.99		.09	.47	*	*	*		.25	.17	.16		.28	*				.14															4.20	
A	HONOKOHU GULCH 341	4.40	*								.02	T	.02																					4.20	
A	KANAPALI AIRPORT	.37			.02		.01	T																											
A	KANONA INTAKE 374	2.84	*				*	*																										2.84	
A	KAHULUI WSO 598	1.25	T	.01	.14		T				.03	T	.64	T																					
A	KAILILI 436	5.70																																	
A	KAILUA 446	5.82	.06	.02	1.34		.04	.27		.21	.19	.45	.10	.66	.13		.02																	5.70	
A	KAUWALA INTAKE 375	1.20	*		.51								.14							.03														1.19	
A	KEAHUA 410	.32			.28	.04	*	*			T	T																							
A	KEANAE 346	11.00	*			*	*	*			*	*	*	*	*	*																			
A	KEANAKAPU BEACH 260.2	1.04	*	.04		*	*	*			*	*	*	*	*	*																			
A	KIHEI 311	1.68																																	
A	KIPAHULU 258	5.47	.13	.61	.12	.10	.05			.05	.38	.18	.22	.1		.11			.15	.02	.24	.50	.35	.36											
A	KULA HEIGHTS 323.2	1.18			.03																														
A	KULA SANATORIUM 267	1.43									.04																								
A	LAHAINA 361	.21			.13																														
A	LAUNIPOKO INTAKE 376	2.00	*			*	*	*																											
A	LAUNIPOKO VILLAGE 372	.18			.15																													2.00	
A	LUPU UPPER 442	6.02	*			*	*	*																											
A	MAHINAHAHA 466	1.58	*	.15	.08	*	*	*		.05	.05	.07	*	.67	.07		.07																6.00		
A	MAKALEI - FLD 60-497	2.08	*							.64	*	*	*	*	*	*																			
A	OLINDA 332	.00	T	.38	.05	T				T	.01	T		.63	.11		1.28	.03	.06	.19	T													.08	
A	OLDWALU 296	.80	*			*	*	*																											
A	OLDWALU GULCH 377	.80	*			*	*	*																											
A	PAAKEA 350	10.33	.42	1.37	.41	.03				.34	.43	.67	.35	1.01	.64		.05	.04																.80	
A	PAIA 406	.89	T	.07	.21	.01	T			.01		.21	.04	.01	.17		T																		
A	PANILEI HULU 259.2	6.91	*		2.30																														
A	PAHAKEA BRIDGE 307.2	.05	*	.05																															
A	PALIPOLI SPRINGS 267.2	3.20	*	*	*	*	*	*																										3.20	
A	PUDOHUKA 2 343	13.20	*	*	*	*	*	*																										13.20	
A	PUU KUKUI MAKAII 472	2.00	*	*	*	*	*	*																										2.00	
A	PUEENE 396	.11		.08	.02	*	*	*			T	.01																							
V	SPENCEVILLE 400.2	.99	*	.07	.02	T					.07	.02	.07	*																				.02	
ISLAND OF OAHU																																			
A	WIN GATES 261.3		*	*	*	*	*	*																											
A	KULELE 333	3.10	*	*	*	*	*	*																											
A	KUMEHAME 301	.00	*	*	*	*	*	*																											
A	LUPALAKUA RANCH 250	1.49		.03																															
A	MAHIKULI 364	.17		.03	.03						.07	.44	.10				.07	.02	.05																
A	MAIEHU CAMP 484	.35	*	.13	*	*	*	*			.06	*	.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
A	MAIEHE VALLEY 482	.47	*	.11	*	*	*	*			.03	.17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
A	MAKAOI 443	7.30	*																																7.30
A	MAIKAMOI DAM 336	10.42	*	25	.02	.80	.04	.08		.24	.16	.64	.58	.64	.72		.06	.01	.72	.01	T	.06	.02	.24	.47	.16	T	.54	.06	.02	.01	.96	.71	.24	
A	MA																																		

See reference notes following Station Index

HAWAII
SEPTEMBER 1971

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KSAW-TV Tower 193	A	5.24			2.40						1.32						.32							1.20									
FEALAK 26.2	A	5.67		.09	.19	.77	.22	.02		.20	.13	.10	.04				.01		.30		.13	.04	.51	.42	.21	.13	.21	.01	.96	.40	.70		
FEALAK 181.2	A	7.45	.19	.56	.04	.04	.56	.26	.17	.20	.13	.13	.09		.04	T	.38	.28	T	.75	.46	.01		2.27	.02								
FEALAK 2 C F 5	A	5.00																													5.00		
KIPA 86.2	A	4.65	.74	.48	.19	.69	.02	.16	T	.01	.09	.01	.01	.40	.01			.14	.33		.11	.39	2.35	1.10	.16	.27	.13	.08	.32	1.39	.85		
KWHLA MISSION 175.1	A	2.68	.72	.08	.90	.04	.01	.03	.03	.03	.23	.12	.05	.03	.02						.01	.06	.19	.02		.09	.01	T	.12	.19	.07	.16	
KWHLA 10WIP 96	A	2.36			1.15						.58										.04	.09	.26	T					.31	.04	.25		
KWHLA 21.1JA 68.3	A	3.42	1.11				1.63			.01	.07	.07		.37	.01			.23				.42			.40	.40							
KWHLA 21.1JA 68.3	A	3.42	1.11				1.63			.01	.07	.07		.37	.01			.23				.42			.40	.40							
KWHLA 21.1JA 68.3	A	3.42	1.11				1.63			.01	.07	.07		.37	.01			.23				.42			.40	.40							
KWHLA 21.1JA 68.3	A	3.42	1.11				1.63			.01	.07	.07		.37	.01			.23				.42			.40	.40							
KWHLA 21.1JA 68.3	A	3.42	1.11				1.63			.01	.07	.07		.37	.01			.23				.42			.40	.40							
KWHLA 21.1JA 68.3	A	3.42	1.11				1.63			.01	.07	.07		.37	.01			.23				.42			.40	.40							
KWHLA 21.1JA 68.3	A	3.42	1.11				1.63			.01	.07	.07		.37	.01			.23				.42			.40	.40							
KWHLA 21.1JA 68.3	A	3.42	1.11				1.63			.01	.07	.07		.37	.01			.23				.42			.40	.40							
KWHLA 21.1JA 68.3	A	3.42	1.11				1.63			.01	.07	.07		.37	.01			.23				.42			.40	.40							
KWHLA 21.1JA 68.3	A	3.42	1.11				1.63			.01	.07	.07		.37	.01			.23				.42			.40	.40							
KWHLA 21.1JA 68.3	A	3.42	1.11				1.63			.01	.07	.07		.37	.01			.23				.42			.40	.40							
KWHLA 21.1JA 68.3	A	3.42																															

	Wind (Speed — m.p.h.)						Relative humidity averages— percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
							150TH MERIDIAN												
							02	08	14	20									
HILO WSD 87	17	1.0	5.9	18	SE	20	86	79	69	85	2	9	11	2	3	0	27	51	6.8
HONOLULU WSD 703	5	10.5	12.7	26	NE	03	77	72	55	70	6	13	3	0	0	0	22	74	6.1
KAHULUI WSD 398	5	11.2	12.5	32	E	20	86	71	54	74	9	4	1	0	0	0	14	71	5.6
LIHUE WSD 1020.1	6	9.6	11.3	24	NE	30	79	73	64	75	5	10	7	1	0	0	23	58	5.8

DAILY TEMPERATURES

HAWAII
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Station		Day of Month																																Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	78 58	74 68	72 56	77 55	71 58	74 59	74 56	74 60	74 59	73 57	75 57	74 55	70 49	72 50	72 48	69 48	74 50	74 51	74 57	74 56	74 51	78 56	74 51	69 50	72 54	73 53	71 56	68 57	72 53	70 56	70 56	73.0 54.9	
KILAUEA POINT 1133	MAX MIN	83 73	84 74	82 72	80 74	83 72	82 75	85 74	84 75	84 75	84 75	84 75	84 75	83 73	83 74	87 73	84 75	83 74	83 74	94 74	82 76	83 74	84 74	88 73	80 71	83 71	80 71	83 71	82 70	80 70	80 71	83.5 73.5		
LIHUE WSO 1020.1	MAX MIN	86 75	86 75	86 78	86 72	85 74	86 76	86 76	87 76	87 75	86 76	86 77	86 75	86 73	84 73	86 71	86 70	86 72	86 72	86 78	86 77	87 75	85 73	87 71	80 70	84 68	85 71	85 77	85 73	84 70	84 71	84 71	85.4 74.5	
MAKAHUEA POINT 940.1	MAX MIN	87 75	87 73	86 73	84 71	86 75	87 76	88 71	87 72	84 72	86 73	87 73	87 70	87 72	86 70	86 76	89 72	82 72	88 72	88 74	85 71	83 72	85 73	87 71	88 70	78 68	84 71	83 72	83 70	85 71	82 71	82 71	85.5 72.1	
MANA 1026	MAX MIN	90 70	87 69	88 66	89 66	81 70	84 69	89 67	89 71	89 69	89 68	86 66	86 67	85 69	85 69	85 71	86 69	85 68	86 67	88 66	89 67	88 69	86 70	91 69	88 68	84 69	82 69	87 65	87 67	89 69	88 66	87.1 68.2		
NIU RINGE 1035	MAX MIN	84 65	83 64	84 64	84 65	83 62	84 64	86 65	85 63	83 64	82 63	85 62	82 63	83 64	80 63	81 63	83 64	84 63	82 63	84 65	83 63	83 62	84 65	83 64	80 63	81 64	83 64	81 63	81 64	80 63	81 64	82.8 63.7		
WAIHAI LOWER 1054	MAX MIN	82 68	81 69	78 68	81 65	81 64	80 67	78 69	79 69	79 68	80 67	79 67	79 65	78 65	80 63	80 62	80 62	80 62	81 62	80 66	78 66	78 70	79 68	81 62	79 65	79 64	79 65	78 66	79 67	78 64	79 67	79.4 65.8		
* * *																																		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	86 68	88 69	86 71				87 67	88 70	86 69	86 67			87 64	85 65	84 68	86 66	85 67				87 67	86 70	87 67	86 67				87 66	85 68	85 67	85 67	86.1 67.7	
HONOLULU WSO 703	MAX MIN	89 73	88 73	87 72	89 73	89 70	88 73	89 72	87 72	87 72	88 73	88 72	87 69	87 70	84 68	83 70	85 69	86 70	87 70	88 74	88 73	87 74	88 73	83 70	81 69	85 69	87 73	87 73	87 72	87 73	84 72	86.7 71.5		
HONOLULU SUBSTA 704	MAX MIN	84 75	84 75	82 74	83 73	84 72	83 74	83 73	84 72	82 74	83 73	83 74	83 73	85 75	82 74	82 73	85 73	84 76	85 74	84 76	83 76	83 74	83 74	81 73	81 71	84 72	83 74	84 74	83 73	84 74	82.3 73.6			
KAHUKU 912	MAX MIN	85 73	85 72	85 71				85 70	85 72	84 74	85 73			85 72	85 67	85 70	85 71	85 72				86 74	85 72	85 69	84 70			85 72	84 72	83 73	84 74	84.8 71.7		
KANEHE MAUKA 781	MAX MIN	85 71	80 70	83 69	80 69	84 72	85 72	84 72	83 71	83 73	84 70	84 73	83 71	84 70	84 70	85 69	86 70	86 71	84 73	83 75	83 73	83 74	82 72	85 71	84 70	80 69	81 71	82 70	82 70	82 72	82 73	83.3 71.3		
LUALUALEI 804	MAX MIN	89 74	87 73	88 74	86 76	89 74	88 73	91 74	88 71	89 73	88 73	88 76	89 70	89 70	84 68	87 69	87 70	88 70	86 70	88 74	89 69	86 76	86 73	89 72	85 69	81 68	87 70	87 69	87 74	85 74	85 75	87.2 72.7		
MAKAPUU POINT 724	MAX MIN	80 69	81 69	79 69	78 69	80 71	80 71	80 69	80 71	80 69	80 71	80 71	80 70	80 69	80 73	83 71	84 71	81 73	81 73	80 74	80 74	80 74	81 70	81 70	84 71	84 71	84 71	79 71	80 71	80 70	80.5 70.8			
OPAULA 870	MAX MIN	85 62	85 64	81 68	85 69	84 71	87 67	83 69	85 69	82 69	81 68	84 68	84 69	84 69	80 65	82 63	80 65	81 65	80 65	81 64	80 65	81 65	83 67	81 61	81 61	80 62	80 62	80 62	81 62	81 64	80 64	82.1 65.2		
PRI WAIHAWA 820.2	MAX MIN	87 65	87 66	86 68	83 68	86 68	87 65	88 65	88 68	86 68	86 67	84 66	84 64	86 63	88 63	88 64	85 65	86 64	85 67	86 64	85 68	85 67	85 65	85 65	85 65	85 65	84 66	84 66	85 66	84 66	85 66	85.3 65.8		
WAIALEE 896.3	MAX MIN																																	
WAIALUA 847	MAX MIN	87 65	89 65	86 67	87 68	87 66	88 65	88 65	87 65	87 65	86 62	87 62	87 62	87 63	88 62	86 62	84 65	89 64	88 64	86 64	88 64	87 64	87 64	89 66	85 65	84 64	88 68	88 66	85 63	85 63	85 63	86.9 64.7		
WAIKIKI 717.2	MAX MIN	87 70	88 73	87 71	88 73	87 69	89 72	87 69	88 71	87 73	88 71	88 71	87 69	87 69	88 71	87 69	86 71	87 71	86 71	87 73	86 72	87 74	87 72	88 67	85 69	86 67	87 69	86 72	87 70	86 74	86 74	87.2 70.7		
WAIMANALO EXP FARM	MAX MIN	85 72	85 71	85 69	83 73	85 74	86 74	85 71	87 70	84 70	85 73	85 71	84 71	85 69	85 70	88 70	87 72	86 72	86 74	85 73	85 74	85 76	83 74	86 71	85 71	83 72	84 74	83 74	83 74	82 72	83 74	84.9 72.1		
* * *																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	84 72	84 73	85 73	84 71	84 71	84 72	83 71	84 72	84 71	83 72	83 69	83 74	85 78	84 70	85 66	85 69	85 68	85 70	87 74	86 76	83 74	81 72	84 72	81 71	81 72	86 74	84 74	83 72	84 73	82 71	83.9 71.9		
* * *																																		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	78 62	77 65	79 65	78 64			79 67	76 67	79 67	77 65	77 66		75 63	80 61	80 63	78 65				82 63	78 65	79 66	77 66	77 66		79 63	77 63	76 65	77 64	77 64	78.0 64.6		
* * *																																		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	70 51	66 44	65 50	65 49	65 47	61 48	67 48	67 51	65 48	63 46	65 41	61 42	60 41	62 42	60 42	63 46	64 42	63 46	61 44	65 41	65 50	61 44	63 47	65 45	59 47	63 45	67 46	64 44	58 42	62 42	63.5 45.4		
HALEAKALA SUMMIT 338.4	MAX MIN	57 40	45 40	50 40	50 38	50 37	52 39	54 37	54 42	53 40	54 39	52 37	52 40	59 37	57 44	57 44	58 44	57 44	60 44	55 41	60 41	56 40	48 41	50 39	51 40	50 41	53 41	53 41	49 40	55 40	55 40	53.8 40.4		
HANA AIRPORT 355	MAX MIN																																	
KAANAPALI AIRPORT	MAX MIN	85 65	86 68	85 67	85 64	86 67	86 68	86 65	83 68	85 66	85 69	85 67	83 68	85 65	84 62	87 62	85 68	84 68	85 68	85 68	85 66	85 69	84 69	84 65	82 68	82 67	86 67	84 71	85 65	84 64	84.7 66.4			
KAHULUI WSO 398	MAX MIN	87 64	90 72	89 71	87 68	87 70	82 72	87 64	91 70	87 71	88 71	89 71	89 69	87 64	87 65	86 66	91 66	91 66	92 68	89 70	89 71	88 70	87 67	90 65	91 67	89 67	88 72	87 70	87 70	88 72	88.4 68.4			
KAILUA 446	MAX MIN	80 68	81 69	80 67	78 68	79 67	80 67	80 67	80 68	80 68	80 67	80 67	79 66	79 67	80 66	80 66	81 67	81 67	81 68	81 70	81 67	81 67	76 66	78 65	80 67	80 66	79 65	79 68	78 64	79 64	79.7 67.2			
KEAWAKAPU BEACH 260.2	MAX MIN	88 64	87 64	90 64	90 65	90 64	92 64	88 65	86 65	87 65	89 64	88 65	86 66	88 64	85 66	88 66	88 67	88 66	88 66	88 68	88 68	88 69	86 68	83 66	85 70	85 67	85 67	91 63	89 65	88 64	88 64	87.8 65.7		

Continued

DAILY TEMPERATURES

HAWAII
SEPTEMBER 1971

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX MIN	75 59	72 58	76 59	75 58	78 57	75 57	78 58	76 59	73 60	78 59	75 58	72 57	72 58	74 56	72 57	73 60	71 60	71 61	77 61	71 60	73 61	72 61	75 60	74 58	70 59	72 59	75 56	73 57	73 58	74 59	73.6 58.6	
LAMAINA 361	MAX MIN	87 68	88 69	87 70	88 67	88 69	88 69	88 70	88 72	87 71	88 69	89 66	86 67	88 68	87 69	90 69	88 70	88 70	88 70	89 70	89 69	89 71	89 70	88 69	88 68	86 68	92 68	90 68	89 70	89 68	87 67	88.2 69.0	
WAILUKU 386	MAX MIN	82 72	82 73	84 70				82 70	82 71	81 71	82 72			82 71	81 69	83 69	83 70	83 73				86 72	83 74	82 72	82 70			86 71	82 72	80 72	82 72	82.5 71.2	
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX MIN	94 67	85 68	83 67	82 68	82 68	80 67	84 67	84 69	83 67	83 68	83 69	83 69	82 68	84 66	84 66	85 67	84 67	86 70	85 68	82 68	82 67	82 67	84 68	83 67	85 69	83 68	83 67	84 67	81 68	82 68	83.2 67.7	
HAWAII VOLCANO HP HQ 54	MAX MIN	73 55	74 52	70 55	73 53	71 53	71 54	70 55	73 56	72 54	73 54	70 53	72 54	70 54	73 55	73 51	74 54	75 55	71 58	71 55	67 52	70 55	66 49	71 55	72 55			71 54	65 56	69 53	69 56	71.1 54.1	
MILU WSO 87	MAX MIN	86 66	86 66	85 69	84 66	85 66	84 67	86 66	86 66	84 69	86 65	86 65	86 69	88 68	90 67	88 67	89 67	86 67	87 67	88 68	82 68	82 67	84 66	85 67	86 70	86 68	83 68	84 65	79 69	83 67	83 69	85.1 68.1	
KAINALIU 73.2	MAX MIN	79 63	77 63	80 61	80 63	76 60	76 61	77 63	77 65	75 63	78 63	77 62	77 62	78 62	78 61	78 61	77 60	78 62	78 65	79 64	77 63	76 63	77 63	78 63	79 60	79 61	80 63	80 63	80 63	78 63	78 63	77.9 62.3	
KAMUELA 1v2.2	MAX MIN	74 60	72 58	74 59	71 58	73 57	74 57	74 58	75 59	72 58	74 58	73 57	73 58	75 60	75 54	78 49	77 52	78 54	79 57	78 60	73 59	73 57	73 57	77 57	77 57	78 55	79 58	73 57	75 60	72 60	73 59	74.9 57.1	
KEAAU 92	MAX MIN	82 64	85 66	83 66	83 66	82 66	82 67	82 67	83 66	83 66	82 66	83 65	83 65	84 67	84 67	84 65	85 65	85 66	84 68	81 67	81 66	80 66	83 66	83 66	82 66	82 66	81 65	82 65	81 65	78 66	81 66	82.4 65.9	
KEALAKEUA 26.2	MAX MIN	80 64	80 65	79 65	79 62	80 63	75 63	76 64	77 65	79 65	78 65	77 63	77 63	79 63	79 64	78 64	79 64	80 67	80 66	78 65	75 64	76 64	79 64	78 62	79 64	79 65	79 65	79 65	78 64	80 64	79 64	78.4 64.1	
KOHALA MISSION 175.1	MAX MIN	83 69	83 67	83 69	80 70	82 68	82 67	82 67	82 69	82 67	80 69	82 69	81 69	82 66	83 66	84 67	84 66	85 67	84 69	82 70	82 68	81 68	80 69	82 66	84 66	85 69	83 70	82 69	83 68	78 69	81 67	82.2 68.0	
KONA (KAILUA) 68.2	MAX MIN	88 72	85 71	86 71		85 68		83 71	84 70	82 69	86 68			84 69	84 71	85 70	86 71	86 70				86 69	84 72	86 69	85 67			86 72	85 72	85 71		85.0 70.0	
KULANI CAMP 79	MAX MIN	66 49	66 49	64 51	62 47	65 50	65 48	65 48	67 51	57 51	66 55	63 48	65 51	65 46	68 47	69 45	69 45	67 47	69 53	69 49	64 47	67 54	66 46	64 48	65 52	67 51	64 49	61 46	65 52	60 50	62 53	65.1 49.1	
MAUNA LOA SLOPE OBS	MAX MIN	54 36	57 36	54 36	53 36	55 36	59 38	58 39	55 39	56 39	52 37	54 36	54 36	56 39	56 38	55 39	52 37	40 38	40 38	51 35	54 34	50 41	51 36	51 34	53 33	50 35	46 34	49 35	56 35	54 35	51 35	53.1 36.5	
MOUNTAIN VIEW 91	MAX MIN	80 59	80 61	80 61	79 60	79 60	79 60	79 60	81 61	79 61	77 60	80 58	80 58	80 58	81 60	80 59	82 59	81 61	78 59	78 59	78 59	74 59	75 59	79 60	80 60	78 59	78 59	78 59	78 59	71 61	77 62	78.6 59.6	
NAALEHU 14	MAX MIN	82 66	82 66	80 70	80 70	82 66	82 66	82 66	82 66	81 66	81 66	82 66	82 66	82 66	82 66	81 66	82 66	82 66	83 67	83 67	83 67	78 67	79 67	82 66	82 66	80 66	80 66	82 67	78 69	80 70	81.0 67.5		
ODKALA 223	MAX MIN	82 68	83 68	83 67	82 67	82 67	83 67	84 69	83 69	82 69	82 68	83 68	83 68	84 69	83 68	82 68	84 69	83 69	86 69	86 69	81 69	80 68	82 67	82 67	83 66	80 66	82 66	81 66	83 66	81 67	81 67	82.5 67.6	
OPIHIHOLE 2 24.1	MAX MIN	74 64	80 61	81 62	75 61	74 60	74 60	74 62	76 64	76 63	76 60	77 60	77 60	76 60	74 61	75 62	75 62	76 63	75 66	76 66	75 66	77 66	79 60	73 61	77 62	77 62	77 62	77 63	77 63	77 61	75 62	76.5 61.9	
PAHALA 21	MAX MIN	85 64	84 63				83 62	81 63	82 63	83 62	83 63			84 62	83 63	83 65	84 65					83 62	82 62	77 62	81 63			83 63	78 63	83 65		82.3 63.4	
PUAKO 95.1	MAX MIN	97 71	87 71	87 70	86 73	87 70	87 70	85 69	87 70	84 74	85 71	87 69	86 68	85 69	84 69	85 70	86 70	86 73	83 74	87 72	87 73	87 73	84 69	86 70	85 66	84 69	87 70	87 69	86 73	86 73	85 75	85.8 70.6	
UPOLI POINT USCG 159.2	MAX MIN	84 70	82 73	82 72	84 69	83 70	83 69	83 69	83 72	83 72	81 70	84 71	84 67	85 70	85 67	86 69	86 73	86 69	84 70	83 74	85 72	86 73	86 73	83 69	85 73	82 72	86 69	85 69	82 68	82 73	80 74	76 71	82.8 70.6

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1	EVAP	.38	.43	.38	.36	.31	.31	.36	.27	.34	.36	.38	.36	.34	.32	.26	.27	.20	.35	.34	.38	.39	.30	.35	.35	.30	.33	.29	.17	.32		9.858	
	WIND	146	154	226	188	123	146	168	151	184	197	210	173	63	153	63	64	70	128	161	191	224	180	109	87	79	156	209	199	180	211	4593	
	MAX	87	85	82	87	84	87	84	85	86	84	89	85	86	88	84	88	84	88	86	85	82	83	84	86	83	86	83	82	80	84	84.8	
	MIN	64	65	65	63	63	65	65	65	65	64	64	63	63	62	61	61	62	63	66	64	65	65	62	62	61	63	63	64	64	64	63.5	
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.36	.26	.32	.34	.31	.40	.31	.40	.25	.30	.24	.30	.18	.30	.24	.24	.22	.17	.16	.28	.29	.20	.30	.10	.14	.15	.15	.16	.38	.30	7.75	
	WIND	38	31	42	42	38	34	39	27	34	42	36	27	30	30	27	27	30	26	26	37	41	35	27	14	26	21	33	34	39	46	979	
	MAX	94	91	91	91	91	92	91	87	87	91	88	88	90	90	94	93	92	85	83	91	88	87	93	82	86	90	90	90	89	89	89.5	
	MIN	65	68	66	66	66	67	66	70	67	67	67	64	65	66	66	67	66	67	67	66	67	69	67	68	67	67	66	66	66	66	66.7	

See Reference Notes Following Station Index

ON INDEX

HAWAII
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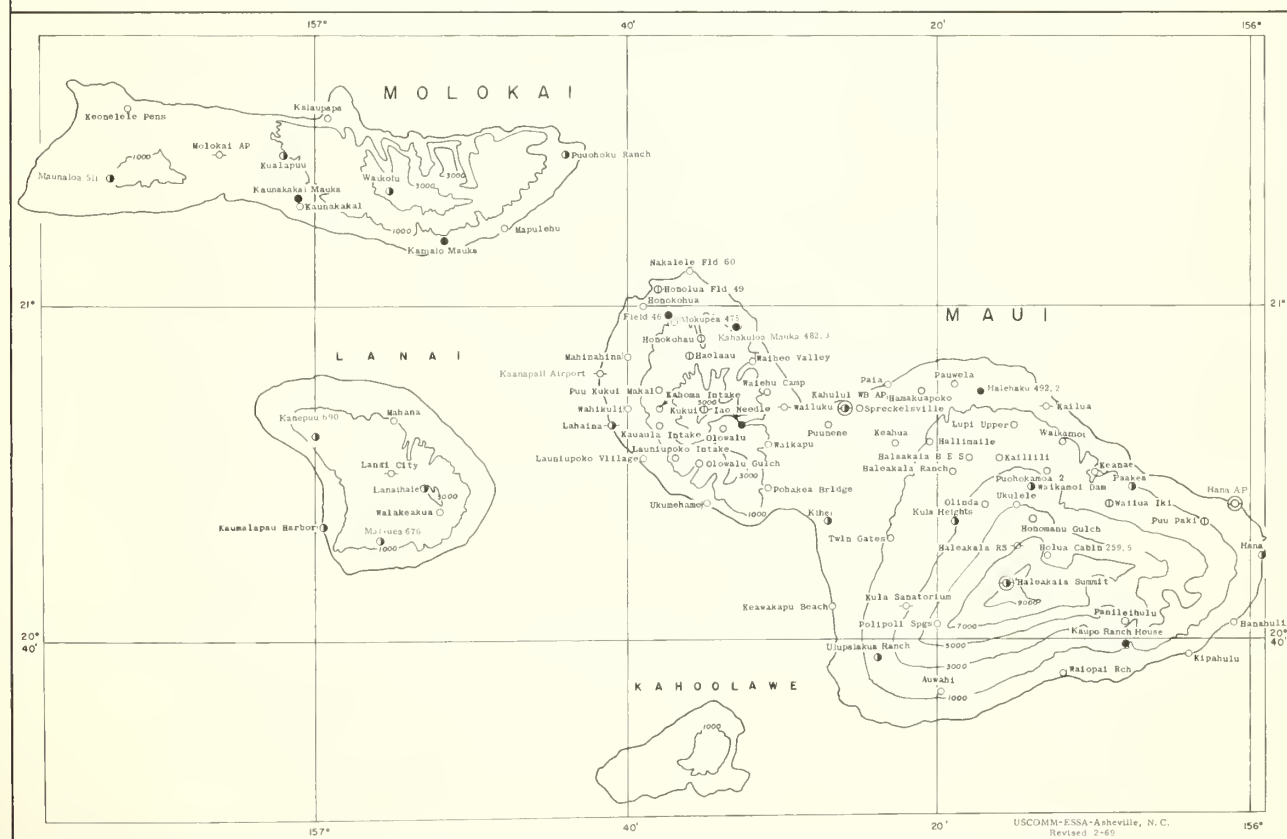
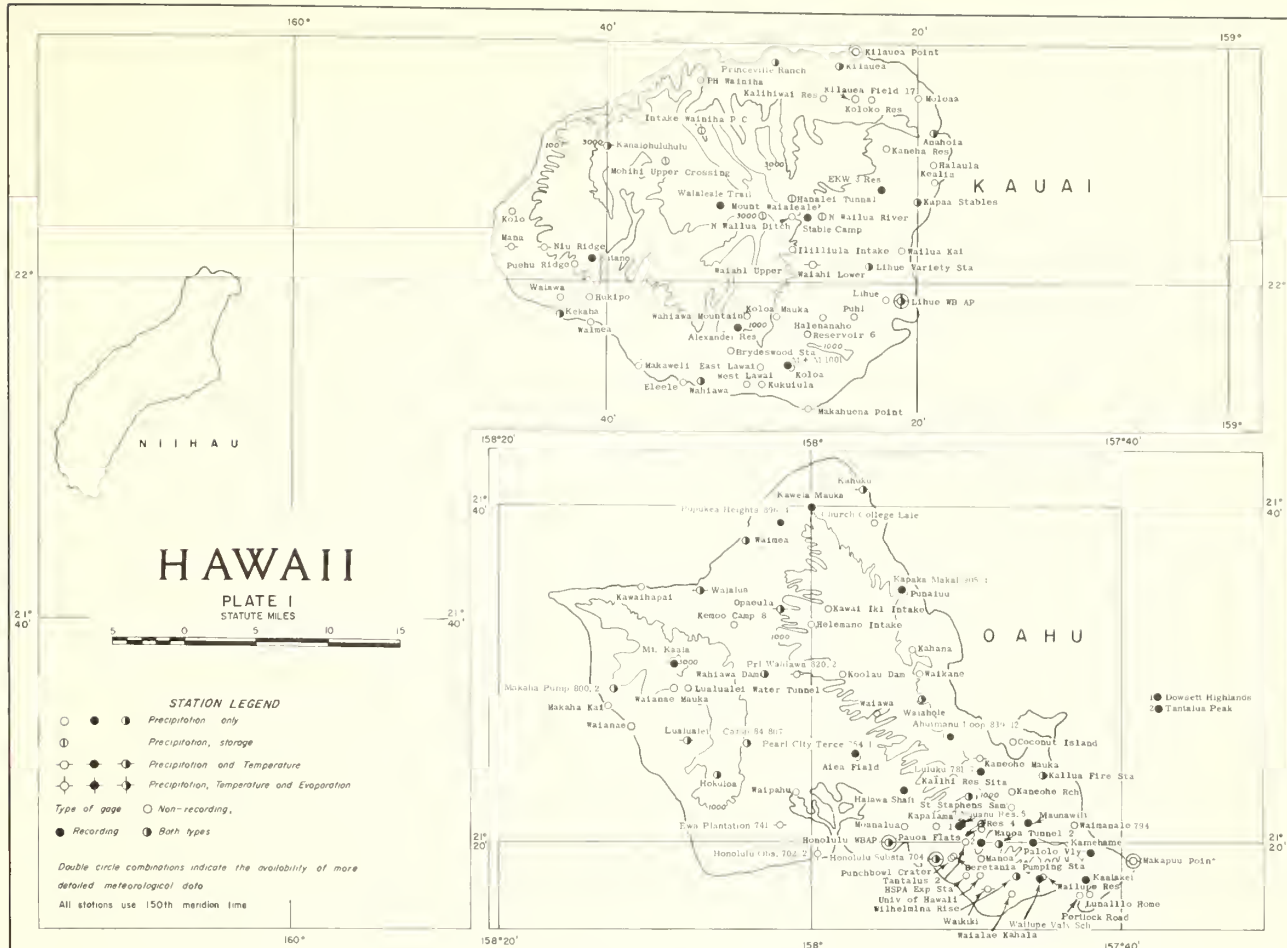
SEPTEMBER 1971

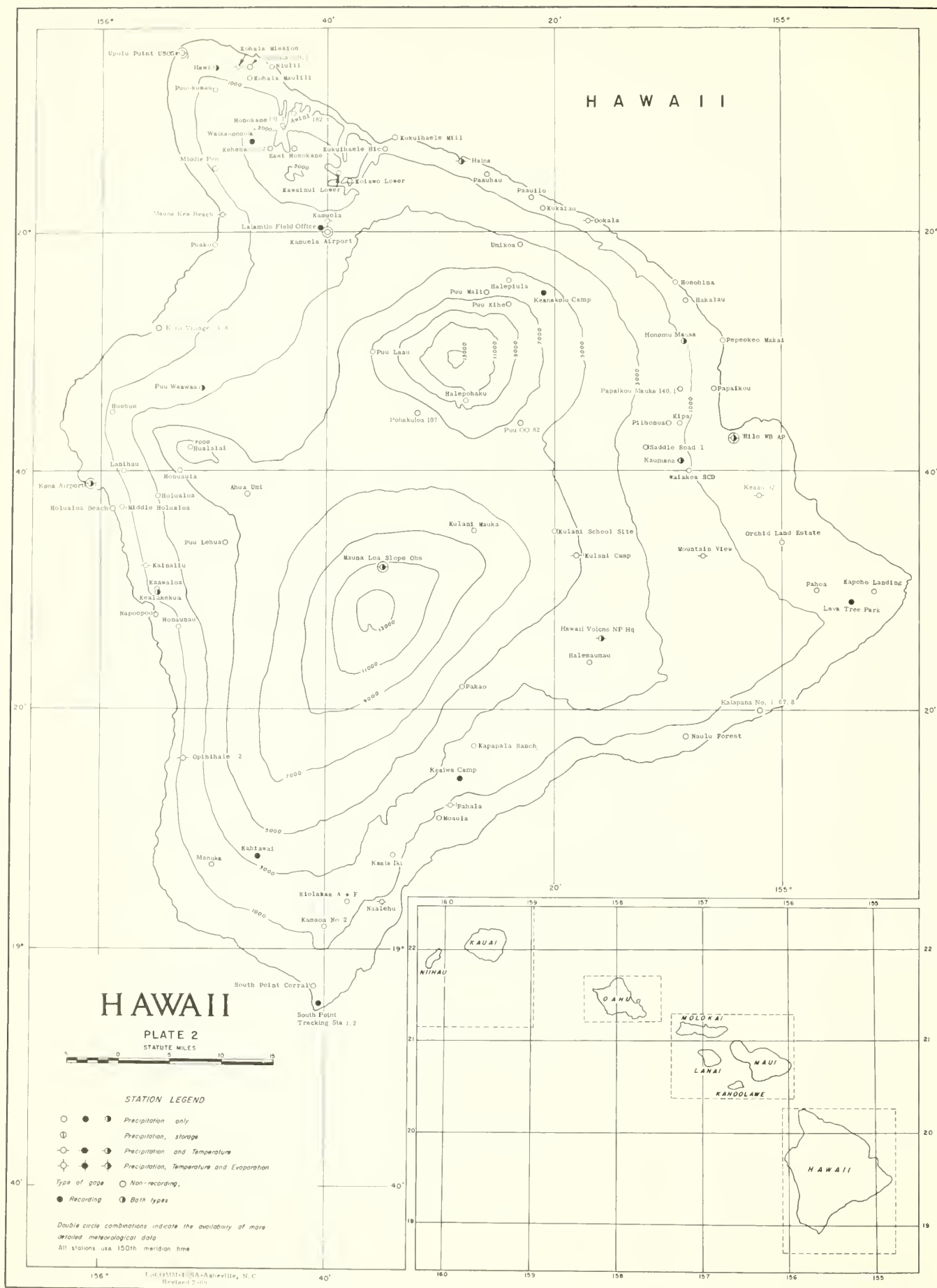
OBSERVATION TIME AND TABLES										OBSERVATION TIME AND TABLES														
STATION	INDEX NO.	DIVISION	DISTRICT	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	OBSERVER	
ISLAND OF KAUAI																								
ALEXANDER RES. 983	0140	02	KOOLA	21 21 57	159 32	1010					MCBRYDE SUGAR CO. LTD.	ISLAND OF MOLOKAI												
ANAHOLA 1114	0434	01	KAWAHU	12 08 08	150 18	180	7A				LIME PLANTATION CO.	WAIKULU 340	A 940	01	MOLOKAI	21 21 08	156 55	3550					HOLDEN RANCH	
BRYESWOOD STA 985	0435	02	KOOLA	21 21 56	159 32	720	7A				MCBRYDE SUGAR CO. LTD.	KAUNAEPU 490	A 330	01	LAHINA	12 04 57	157 00	1650					DOLE COMPANY	
CLIFF 1000	0436	02	KOOLA	21 21 55	159 32	720	7A				MCBRYDE SUGAR CO. LTD.	KAUNALAPAPA HARBOR 658	A 340	01	LAHINA	12 04 57	157 00	1650					DOLE COMPANY	
CR 3 RESEVED 1094.1	0437	02	KOOLA	21 21 54	159 32	720	7A				MCBRYDE SUGAR CO. LTD.	LANAI CITY 672	A 286	01	LAHINA	12 05 10	156 55	1620	7A				DOLE COMPANY	
LEA 986	0438	02	KOOLA	21 21 53	159 32	720	7A				MCBRYDE SUGAR CO. LTD.	LANAI CITY 672	A 286	01	LAHINA	12 05 10	156 55	1620	7A				DOLE COMPANY	
MAKALA 1110	0439	01	KAWAHU	12 07 09	159 19	193	7A				LIME PLANTATION	LANAI CITY 672	A 286	01	LAHINA	12 05 10	156 55	1620	7A				DOLE COMPANY	
MALENA 1003	0440	01	KAWAHU	12 07 09	159 19	193	7A				LIME PLANTATION	LANAI CITY 672	A 286	01	LAHINA	12 05 10	156 55	1620	7A				DOLE COMPANY	
HUKUNO 1056	0441	01	KAWAHU	12 07 09	159 19	193	7A				LIME PLANTATION	LANAI CITY 672	A 286	01	LAHINA	12 05 10	156 55	1620	7A				DOLE COMPANY	
HUKUNO 945	0442	01	KAWAHU	12 07 09	159 19	193	7A				LIME PLANTATION	LANAI CITY 672	A 286	01	LAHINA	12 05 10	156 55	1620	7A				DOLE COMPANY	
ISLAND OF MAUI																								
ILITILUA INTAKE 1005	0443	01	KAWAHU	12 07 09	159 19	193	7A				LIME PLANTATION	LANAI CITY 672	A 286	01	LAHINA	12 05 10	156 55	1620	7A				DOLE COMPANY	
INTAKE WAINIPA CO 108A	0444	01	KAWAHU	12 07 09	159 19	193	7A				LIME PLANTATION	LANAI CITY 672	A 286	01	LAHINA	12 05 10	156 55	1620	7A				DOLE COMPANY	
KAPPA STABLES 1104	0445	01	KAWAHU	12 07 09	159 19	193	7A				LIME PLANTATION	LANAI CITY 672	A 286	01	LAHINA	12 05 10	156 55	1620	7A				DOLE COMPANY	
KILAEUA 928	0446	01	KAWAHU	12 07 09	159 19	193	7A				LIME PLANTATION	LANAI CITY 672	A 286	01	LAHINA	12 05 10	156 55	1620	7A				DOLE COMPANY	
KILAEUA 1134	0447	01	KAWAHU	12 07 09	159 19	193	7A				LIME PLANTATION	LANAI CITY 672	A 286	01	LAHINA	12 05 10	156 55	1620	7A				DOLE COMPANY	
KILAEUA POINT 17 1135	0448	01	KAWAHU	12 07 09	159 19	193	7A				LIME PLANTATION	LANAI CITY 672	A 286	01	LAHINA	12 05 10	156 55	1620	7A				DOLE COMPANY	
KILAEUA POINT 1133	0449	01	KAWAHU	12 07 09	159 19	193	7A				LIME PLANTATION	LANAI CITY 672	A 286	01	LAHINA	12 05 10	156 55	1620	7A				DOLE COMPANY	
ISLAND OF OAHU																								
KITANO 1037.1	0450	01	KAWAHU	12 07 09	159 19	193	7A				LIME PLANTATION	LANAI CITY 672	A 286	01	LAHINA	12 05 10	156 55	1620	7A				DOLE COMPANY	
KOLO 1033	0451	01	KAWAHU	12 07 09	159 19	193	7A				LIME PLANTATION	LANAI CITY 672	A 286	01	LAHINA	12 05 10	156 55	1620	7A				DOLE COMPANY	
KOLO 936	0452	01	KAWAHU	12 07 09	159 19	193	7A				LIME PLANTATION	LANAI CITY 672	A 286	01</										

STATION INDEX

HAWAII
SEPTEMBER 1971

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER		
								TEMP.	PRECIP.	EVAP.	SPECIAL									TEMP.	PRECIP.	EVAP.	SPECIAL		
ISLAND OF HAWAII																									
MOOLE HOKULUA RR, 1	A 8289	01	N KONA	4	19 37	155 58	475	FA				HONA EXPERIMENT STA	UMIHOA 118	8780	01	MAHAKUA	1	19 39	155 23	3420	FA			KUKAIAU RANCH CO	
MOOLE PEN 1-7-1	A 8270	01	N KONA	1	20 08	155 50	1380	VAR				MAHUA RANCH	UPOLU POINT USCG 159.2	8781	01	N KONA	1	20 15	155 53	601	FA			U S COAST GUARD	
MOUNTAIN VIEW 91	A 8420	01	MAHAKUA	2	19 33	155 30	600	FA				MAHAKUA RANCH CO	WAIKAKA SCO 88.2	9028	02	S HILO	2	19 40	155 08	1010	FA			SHINICHI KANESHIRO	
MALEHU 1A	A 8598	01	MAHAKUA	3	19 04	155 35	673	FA				PUNA SUGAR CO	WAIKANDOLUA 178.6	930	01	N KONA	1	20 08	155 47	3030	FA			MAHUA RANCH	
MALEHU 2B	A 8599	01	MAHAKUA	3	19 04	155 35	673	FA				HUTCHINSON SUGAR CO	CLOSED STATIONS												
MALEHU 3B	A 8597	01	MAHAKUA	3	19 04	155 35	673	FA				HONA EXPERIMENT STA	ISLAND OF MAUI												
MALEHU 4B	A 8596	01	MAHAKUA	3	19 04	155 35	673	FA				CLOSED 1/1/71	MALEHAKU 492.2	1011	02	MAHAKUA	1	20 35	156 17	690				CLOSED 8/9/71	
MALEHU 5B	A 8595	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	ISLAND OF HAWAII												
MALEHU 6B	A 8594	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 7B	A 8593	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 8B	A 8592	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 9B	A 8591	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 10B	A 8590	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 11B	A 8589	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 12B	A 8588	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 13B	A 8587	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 14B	A 8586	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 15B	A 8585	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 16B	A 8584	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 17B	A 8583	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 18B	A 8582	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 19B	A 8581	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 20B	A 8580	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 21B	A 8579	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 22B	A 8578	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 23B	A 8577	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 24B	A 8576	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 25B	A 8575	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 26B	A 8574	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 27B	A 8573	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 28B	A 8572	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 29B	A 8571	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 30B	A 8570	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 31B	A 8569	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 32B	A 8568	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 33B	A 8567	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 34B	A 8566	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 35B	A 8565	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 36B	A 8564	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 37B	A 8563	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 38B	A 8562	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 39B	A 8561	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 40B	A 8560	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 41B	A 8559	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 42B	A 8558	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 43B	A 8557	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 44B	A 8556	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 45B	A 8555	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 46B	A 8554	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 47B	A 8553	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 48B	A 8552	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 49B	A 8551	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 50B	A 8550	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 51B	A 8549	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 52B	A 8548	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 53B	A 8547	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 54B	A 8546	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 55B	A 8545	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 56B	A 8544	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 57B	A 8543	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 58B	A 8542	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 59B	A 8541	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
MALEHU 60B	A 8540	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												
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MALEHU 62B	A 8538	01	MAHAKUA	3	19 04	155 35	673	FA				MALEHAKU 492.2	MALEHAKU 492.2												





U.S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801



POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE

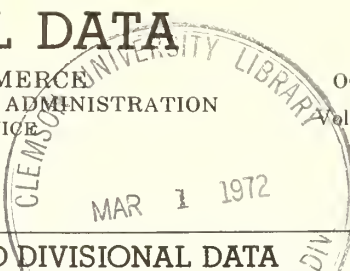
CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

OCTOBER 1971

Volume 67 No. 10



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature										Precipitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	No. of Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
											Max.	Min.	Total	Departure From Normal	Greatest Day								Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 121

Continued

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
OCTOBER 1971

Continued

Station	Temperature											Precipitation											
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										80° or Above	31° or Below	31° or Below	31° or Below					Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEAAU 92	81.2	64.5	72.9	- 1.5	84	13	61	18+		0	0	0	0	8.27	- 4.11	1.58	7	.0	0		18	7	2
KEALAKEKUA 26.2	78.6	63.5	71.1		81	31+	60	19+		0	0	0	0	2.07		.55	31	.0	0		4	2	0
KONA (KAILUA) 68.3					87	11	67	18		0	0	0	0	.07		.05	13	.0	0		0	0	0
KUKUI-AELE HIC 199														2.67	- 3.27	.82	7	.0	0		4	2	0
KULANI CAMP 79	63.94	47.64	55.84		69	20	40	15		0	0	0	0	5.29		1.33	7	.0	0		10	4	1
PAHALA 21					85	4	59	19		0	0	0	0	.72	- 3.29			.0	0				0
POHAKULOA 107														.81		.02	31	.0	0				0
PUEKO 95.1														.03		.20	13	.0	0		0	0	0
PUU HAAWAA 94.1	85.8	70.2	78.0		88	24+	66	25+		0	0	0	0	.50	- 2.38	.24	18+	.0	0		3	0	0
UMUKOA 118														.80	- 4.15	.24	18+	.0	0		3	0	0
WAIKAE SC0 88.2														9.23		2.52	7	.0	0		16	7	3
ISLAND			69.9											3.05				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 92° ON THE 13TH AT KAHULUI WSO 398, MAUI

LOWEST TEMPERATURE: 31° ON THE 17TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 10.82 AT HONOLULU MAUKA 138, HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 8 STATIONS

GREATEST ONE-DAY PRECIPITATION: 3.86 ON THE 7TH AT MOUNTAIN VIEW 91, HAWAII

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

Although the month was devoid of spectacular or damaging weather, the first high surf of the season and a band of thunderstorms and intense, but scattered, showers brought a foretaste of the coming winter. Meanwhile, a prolonged dry spell hung on over much of the State, but the drought in Maui and Molekai was declared officially over.

High waves generated by a Pacific storm far to the north of Hawaii began arriving along the north and west shores of Kauai and Oahu on the morning of October 7. Swell of 8 to 9 feet over the open sea near the northern islands produced surf of 20 feet or more at Waimea Bay and of 12 to 15 feet at Sunset Beach and Haleiwa -- all noted surfing spots on Oahu's north shore. The surf reached heights of 30 feet at French Frigate Shoals but of no more than 6 to 8 feet along exposed coasts of Maui and Hawaii Island. Although the waves did no damage, a number of surfers and swimmers made incautious by a long summer of small surf had to be assisted ashore by lifeguards and fire rescue squads.

On October 17 and 18 a broad westward-moving band of bad weather, associated with low pressure systems at both lower and upper levels of the atmosphere, moved over the islands, accompanied by massive clouds, thunderstorms, and intense but widely scattered showers. Localized street flooding occurred in Honolulu and two waterspouts were observed off western Oahu.

During most of the rest of the month trade winds of moderate strength prevailed. These became strong and gusty at times and from 5 p.m. on the 21st to 5 a.m. on the 24th small craft warnings were in effect for Hawaiian waters.

The effects of the persistent dry spell that had affected the State since early in the year continued to dwindle away. By October 4 full water service had been restored to Maui's Kula residents after almost 2 months of strict rationing. A few days later, on October 8, forest reserves which had been closed since September 1 in the Koolau and Hana areas and since September 3 in the Kula and Kahikinui areas, all on East Maui, were reopened. And on October 18 the Maui County Board of Water Supply declared the drought in Kula and in Kalae, Molokai, officially over. The only remaining water restrictions in the State, those imposed September 20 on irrigation in Hawaii Island's Lalamilo area, were to be lifted October 31.

But despite the widespread drought-relieving trade wind showers, especially frequent over the mountain watersheds of the northern islands, and the scattered downpours of the October 17-18 period, rainfall totals for the month were still well below normal over much of the State, with large portions of all the islands reporting less than half their October means. This was true of northeastern Kauai, parts of Lanai and Oahu, all of Molokai, Maui's central valley and southeastern West Maui (many gages in both areas received no rain at all) and of Hawaii Island's Hamakua and Kona districts. In fact, October's rainfall deficiencies were so widespread as to make it seem premature to consider the drought safely over. Perhaps even more ominous, however, was the increasing number of stations with lengthening periods of deficient rainfall. A representative selection of those with below-normal rainfall in six or more successive months is listed below.

Station	Number of Successive Months With Below-Normal Rainfall (6 or more months, only)
<u>KAUAI</u>	
North Wailua River	6
Powerhouse Wainiha	6
<u>OAHU</u>	
Kahana	6
<u>LANAI</u>	
Lanai City	9
<u>MAUI</u>	
Hana	6

H A W A I I - O C T O B E R 1 9 7 1

SPECIAL WEATHER SUMMARY

Station	Number of Successive Months With Below-Normal Rainfall (6 or more months, only)
<u>MAUI</u> - Continued	
Kailua	6
Kula Sanatorium	6
Mahinahina	9
Paakea	6
Paia	6
Wailuku	9
<u>HAWAII</u>	
Haina	7
Halepiula	8
Honohina	6
Huehue	9
Kamuela	9
Mauna Loa Observatory	6
Niulii	7
Pahoa	6

Stations With Less Rain in October 1971 than in Any Previous October

(25 years of record or more, only)

Station	Length of Record (Years)	Previous Least October Total	October 1971
<u>KAUAI</u>			
Anahola	41	1.16 Inches	1.14 Inches
<u>HAWAII</u>			
Middle Holualoa	29	0.87	0.33
Napoopoo	31	1.54	1.29

Saul Price
Regional Climatologist for Pacific Region
P. O. Box 3650
Honolulu, Hawaii 96811

HAWAII
OCTOBER 1971

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DAILY PRECIPITATION

HAWAII
OCTOBER 1971

Continued

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF MOLOKAI																																	
KALAUAPA 563	A	1.43		.12	.04					.06			.03	.11					.02	.02		.16	.08	.03		.26	.10			.18	.22	.	
KAUNAKAKAI 536	A	.03																	.03													.	
KEONELELE PENS 551	A	.00																														.	
KUALAPUU 534	A	.25	.06	.15																	.04	.31	.12	.15	.01							.	
MAPULEHU 542	A	1.46	.03	.08	.10		.21	.05	.13							.14				.10												.03	
MAUNALO 511	A	.21			.01														.10		.04						.03			.03		.	
MOLOKAI AP 524	A	.42	.01	.02	T														T	.19		.02			.02			.07		.09	T	.	
PUUOHUKU RANCH 542.1	A	.																														.	
WAIKOLU 540	A	.22														.22																.	
ISLAND OF LANAI																																	
KANEPUU 690	A	1.85												.18								.12								1.42		.13	
KAUHALAPAU HARBOR 658	A	1.89											.71						.85		.01							.32				.	
LANAI CITY 672	A	1.28											.12						.70		.02	.12					T	.20	.12			.	
LANAIHALE 684	A	1.99																														1.99	
MAHANA 694	A	2.74												.12								.01								2.12		.49	
MALAUUA 676	A	.65																												.19		.	
WAIKAEAKUA 685	A	.55														.05							.46									.50	
ISLAND OF MAUI																																	
AUWAMI-252	A	.20												.03																	.17	.	
HALEAKALA 8 E S 434	A	2.20	.14	.07	.08									.06						.13		.42		1.00	.19	.05	.03					.03	
HALEAKALA RANCH 432	A	.37																		.14		.06		.17								.	
HALEAKALA RS 338	A	1.15	.10	.11	.01	.01		.15	T				.11	T						.37		.12	T	.12	.03					T		.01	
HALEAKALA SUMMIT 338.4	A	.57				.03	.06	.23												.22		.03								T		.	
HALIHAILE 423	A	.85	.09	.05		.06															.10		.43	.12								.02	
HAKAUAPOKO 485	A	1.82	.21	.08	.13	.04	.05		.05	.14										.04	.16	.27	.25	.14	.10	.08	.05					.	
HANA 354	A	2.28		.37		.17	.03	.04	.07	.09	.12		.12						.17	.08	.12		.17			.60						.07	
HANA AIRPORT 355	A	.71	.32	.13	.06	.06	.25	.07	.05	.07									.03	.21		.02	T	.21	.43	.56	.10	.52	.04	.08	.04	.07	
HANAHULI 281	A	1.83	.06	.18	.16	.15	.18	.08				.05	.08	.09	T	.06	T			.03	.08	.11	.03	.21	.26	.04	.21	.12	.20	.07		T	
HOLUA CABIN 259.5	A	1.52		.49			T			.35														.65								.03	
HONOKOHU 480	A	5.00																												5.00		.	
HONOKOHU 483	A	1.41	.21			.36	.02		.02				.09									.12		.05		.30	.12	.06			.06	.	
HONOMANU GULCH 341	A	2.00																														2.00	
KAAHAPALI AIRPORT	A	1.04	.01	.06	T	.02							.68	T								.01		.04	.01					.01	T	.	
KAHOMA INTAKE 374	A	2.75					T																									2.75	
KAHULUI WSO 398	R	.07	T	.02					T	T																						T	
KAILIHI 436	A	8.55																			.02		.02	.01								8.55	
KAILUA 446	A	6.50	.83	.26	.41	.21	.12	.33	.34	.08	.20	.20	.11		.03	.02	.03		.05		.56	.07	.57	.60	.75	.17	.45	.14	.01			.06	
KAUAAU INTAKE 375	A	.87		.26						.06																						.	
KEAMUA 410	A	.11	T	T	T																			.11	T							8.20	
KEANAE 346	A	8.20																														.	
KEAWAKAPU BEACH 260.2	A	.00																														.	
KIMEI 311	A	.00																														.	
KIPAHULU 258	A	3.69	.30	.61	.29		.06	.21	.12		.22												.08	.20	.68	.51	.22	.10	.09			.	
KULA HEIGHTS 323.2	A	.30																		.15		.03	.12									.	
KULA SANATORIUM 267	A	.95									.01		.02	T	.02					.75												.01	
LAHAINA 361	A	.20																												.20		2.50	
LAUNIUPOKO INTAKE 376	A	.00																														.	
LAUNIUPOKO VILLAGE 372	A	.20																														.	
LUPU UPPER 442	A	6.50				.20																										6.50	
MAHINAHINA 466	A	1.58	.10	.20		.20							.02								.29		.20		.10					.47		.	
MAKALELE -FLO 60-497	A	1.94				.97						.18														.48					.31	.	
OLINO 332	A	.92				.01		.10	T					.23	T						T	.26	T	.20				.02	T			.	
OLOWALU 296	A	.02																														.	
OLOWALU GULCH 377	A	1.00																														1.00	
PAKAEA 350	A	9.72	1.19	.61	.18	.18	.11	.68	.79	.33	.43	.27	.12	.04	.03		.03		.05			1.02	.15	1.01	.94	.52	.14	.21	.07	.09	.47	.06	
PAIA 408	A	.04	.04			.01			.01	.07	.12	.04									.01		.16	.09	.02	.01	.02	.01					.
PANILETHULU 259.2	A	1.79												.15																1.64		.	
POHAKA BRIDGE 307.2	A	.00																														.	
POLIPOLI SPRINGS 267.2	A	2.50																														2.50	
PUOHOKAMOA 2 343	A	9.00																														9.00	
PUU KUKUI MAKAI 472	A	2.00																														2.00	
PUUNENE 396	A	T																														.	
SPRECKELSVILLE 400.2	A	.16	T	.02	.02					.01														.01		.07	.03		T			.	
TWIN GATES 261.3	A	.																														.	
UKULELE 333	A	1.65																														1.65	
UKUMEHAME 301	A	.05																		.05													

HAWAII
OCTOBER 1971

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAWAIAU LOWER 193	A	8.17	1.27	*	*	*	*	*	3.15	*	*	*	*	*	*	0.64	*	*	*	*	*	*	2.03	*	*	*	*	*	*	*	1.08	*	*	*
KEAAU 92	A	8.27	.57	1.06	.55	.01	.17	.54	1.56	*	.15	.10	.21	*	*	.04	.11	*	*	*	.33	.26	.64	.33	*	*	*	.11	.40	*	.04	.77	.28	*
KEALAKEKUA 26.2	A	2.07	.07	.06	T	*	*	*	.45	*	*	*	*	*	.15	.08	*	.02	.50	*	*	.03	*	*	*	*	T	.05	*	.06	*	.08	.25	*
KEHENA 181.2	A	6.48	*	*	*	*	*	*	*	*	*	*	*	6.48	.15	*	*	.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KIDILAKAA A E F 6	A	3.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.00	*	*	*
KIPA 89.2	A	9.33	.81	.31	.14	.62	.02	.45	2.44	T	.03	.10	.15	.09	.01	.01	*	*	*	*	.87	.35	.83	.21	.04	.01	.43	.10	.01	.64	.66	*	*	*
KOHALA MAULILI 176	A	2.94	.02	*	*	.21	.17	.48	.58	.02	*	.39	.02	.13	*	*	*	.06	*	*	.41	.05	.23	.09	.07	.01	*	*	.01	*	*	*	*	*
KOHALA MISTON 175.1	A	2.31	.01	.02	.13	.16	.12	.42	.50	T	*	.20	.04	.05	.02	.18	.03	.05	*	*	.28	.02	.17	T	*	.02	.03	*	*	.01	*	*	*	*
KOIAWE LOWER 196	A	4.80	.52	*	*	*	*	*	2.00	*	*	.03	.20	.04	.05	T	*	*	*	*	.28	.02	1.45	*	*	*	*	*	*	*	.85	*	*	*
KONA (KAILUA) 68.3	A	.07	*	*	*	*	*	*	*	*	*	*	*	.05	T	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.02	*	*	*	
KONA VILLAGE 93.8	A	.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KUKAIAU 222	A	1.93	.05	.15	.09	T	.01	.01	.65	*	.02	T	*	*	*	*	*	*	*	.40	.05	.44	*	*	*	.11	.04	*	*	.02	*	*	*	*
KUKUIHALE HIC 199	A	2.67	.04	.08	.06	.05	.03	.47	.82	.01	.07	.06	.03	.05	.05	*	*	*	*	.71	.01	*	*	*	*	*	.11	.06	*	*	*	*	*	*
KUKUIHALE MILL 206	A	1.88	.04	.08	.06	.05	.03	.47	.82	.01	.07	.06	.03	.05	.05	*	*	*	*	.32	.02	.08	*	*	*	*	.10	*	*	.10	*	*	*	*
KULANI CAMP 79	A	5.29	.30	.17	.02	.03	.13	.33	.03	.03	.02	.01	.03	.03	.03	.03	.01	*	.01	.50	.80	.05	.30	.03	.04	.27	.06	.04	.07	.80	.20	*	*	*
KULANI MAUKA 76	A	1.16	.05	*	*	*	.39	.03	*	.14	*	*	*	*	*	*	.09	.04	.02	.15	*	*	*	*	*	*	*	.05	.03	.32	.08	*	*	*
KULANI SCHOOL SITE 78	A	5																																

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation								Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
							150TH MERIDIAN													
							02	08	14	20										
HILO WSO 87	19	1.2	5.6	16	E	12	86	79	69	86	4	5	11	4	1	0	25	45	6.8	
HONOLULU WSO 703	5	10.5	12.9	28	NE	22	78	74	56	71	8	8	3	0	1	0	20	64	5.5	
KAHULUI WSO 398	5	9.9	11.6	31	NE	31	83	72	54	74	7	4	0	0	0	0	11	73	4.4	
LIHUE WSO 1020.1	6	8.5	11.1	22	NE	19	77	73	67	75	10	11	3	1	1	0	26	49	6.4	

DAILY TEMPERATURES

HAWAII
OCTOBER 1971

Station	Day of Month																																	Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
• • • ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	70 58	71 57	73 55	70 48	75 48	73 47	73 52	72 52	73 51	76 49	75 55	67 55	69 53	73 54	75 54	74 55	73 52	69 48	74 48	73 49	71 54	70 58	70 57	72 55	69 51	67 55	71 52	66 46	64 51	62 50	71 52	71.0 52.3	
KILAUEA POINT 1133	MAX MIN	81 78	80 70	84 76	79 69	82 77	79 69	65 75	79 69	83 78	80 71	79 69	79 67	85 77	79 69	83 77	78 69	87 67	79 69	84 78	72 69	80 69	81 76	79 69	83 75	79 69	84 74	78 68	78 74	80 68	80 76	80.8 72.4		
LIHUE WSO 1020.1	MAX MIN	84 74	83 76	83 73	83 70	83 72	84 76	84 76	85 74	83 76	84 76	83 73	82 73	85 71	84 78	84 77	85 72	85 70	83 68	83 70	82 75	83 77	83 78	83 76	83 72	82 76	83 73	84 70	81 68	79 70	82 73	83.0 73.6		
MAKAHUEA POINT 940.1	MAX MIN	84 74	85 70	84 72	85 65	84 69	83 76	83 73	85 70	85 74	86 75	85 74	85 74	81 77	87 74	81 74	82 70	85 74	83 66	87 73	85 75	84 76	85 74	66 66	84 66	84 66	84 66	84 66	87 66	83 65	84 67	81 67	84.1 72.2	
MANA 1026	MAX MIN	88 65	89 67	88 66	88 69	87 65	85 68	88 68	89 64	87 66	88 69	88 65	84 68	81 72	86 65	83 68	89 67	88 69	90 69	86 65	85 63	87 69	87 65	81 66	85 66	87 66	84 66	84 66	83 65	88 66	83 65	79 67	76 62	85.6 66.4
NIU RIIOE 1035	MAX MIN	82 65	81 63	82 63	83 64	80 63	81 65	82 65	81 64	81 64	83 65	82 66	84 66	79 65	83 66	83 66	82 64	83 65	84 65	82 63	80 64	81 64	83 63	81 63	82 63	82 64	79 62	83 63	84 65	81 66	77 66	79 66	81.8 64.1	
WAIKAI LOWER 1054	MAX MIN	77 66	78 64	78 65	78 62	79 64	79 65	78 66	81 64	80 66	80 67	78 66	77 67	78 64	77 65	78 65	80 64	80 66	80 67	78 62	77 67	76 69	78 66	76 68	76 67	78 68	76 68	78 63	78 60	72 65	72 67	75 67	77.5 65.5	
• • • ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	84 68			84 66	86 65	85 64	87 66	86 65			86 66	87 66	84 70	85 67	85 66			86 62	83 62	86 69	85 70	84 71				84 67	83 68	84 63	86 59	83 64			
HONOLULU WSO 703	MAX MIN	86 73	87 73	86 72	87 70	86 69	88 68	87 69	87 73	86 72	87 74	87 74	84 71	83 72	87 72	82 74	86 72	84 68	82 66	86 66	85 74	85 74	85 73	85 71	84 70	85 71	86 70	86 68	81 64	83 69	80 69	83 73	85.2 70.7	
HONOLULU SUBSTA 704	MAX MIN	81 74	82 75	81 75	83 74	82 75	83 75	83 75	83 73	83 73	84 74	84 74	84 74	83 73	83 75	82 75	83 75	82 71	81 72	82 76	82 76	82 76	81 75	81 74	81 72	83 73	84 72	82 73	80 70	82 71	81 70	81 75	82.2 73.6	
KAHUKU 912	MAX MIN	83 73			84 73	84 74	84 74	81 71	83 75			85 72	85 71	85 71	85 76	84 75			85 66	85 75	84 75	83 75	83 76				83 70	82 73	84 63	83 65	83 64			
KANEONE MAUKA 781	MAX MIN	81 71	82 71	83 69	82 70	83 73	80 71	83 71	84 71	84 71	82 69	83 72	84 72	82 70	84 71	83 73	84 72	80 68	83 67	83 66	82 74	82 74	81 70	82 74	82 74	80 72	80 72	83 72	82 67	80 64	80 65	80 70	82.3 71.2	
LUALUALEI 804	MAX MIN	85 71	84 74	86 73	87 71	85 72	88 68	87 71	86 70	88 74	87 74	86 74	86 68	87 69	83 72	86 75	86 68	85 67	85 66	83 65	86 68	84 76	84 71	84 70	85 70	85 72	84 67	85 70	84 65	84 70	83 75	83 75	85.3 70.5	
MAKAPUU POINT 724	MAX MIN	78 70	80 70	80 71	80 70	80 71	78 70	80 71	80 70	80 70	79 71	79 73	80 70	83 70	84 73	78 73	79 70	80 70	80 70	82 71	80 70	79 71	79 70	79 70	79 70	78 70	77 70	79 70	79 70	80 69	83 70	79 73	79.7 70.5	
OPAUELA 870	MAX MIN	80 64	80 66	82 66	80 61	80 64	80 60	80 62	80 66	80 66	80 62	75 62	80 66	81 60	81 62	79 65	80 65	80 59	80 61	81 60	79 60	78 64	79 65	78 60	79 65	78 60	79 62	79 60	79 62	73 60	75 61	75 61	79.2 62.1	
PRI WAIKANA 820.2	MAX MIN	83 65	82 65	83 66	84 64	86 62	85 63	87 63	86 65	86 65	84 68	86 64	86 63	86 63	85 69	85 65	86 64	84 62	85 60	84 60	82 61	82 70	81 69	81 68	78 66	82 65	82 66	84 62	84 59	83 59	80 66	76 70	83.5 64.4	
WAIALEE 896.3	MAX MIN																																	
WAIALUA 847	MAX MIN	84 64	84 64	85 65	85 64	88 61	86 62	86 62	88 63	86 64	87 65	87 65	88 63	88 68	87 65	86 61	84 63	86 65	84 65	84 61	85 65	84 66	82 65	83 66	83 69	83 67	85 67	85 66	85 60	85 59	83 63	85 64	76 68	84.9 64.1
WAIKIKI 717.2	MAX MIN	86 74	85 73	86 73	86 69	87 68	86 71	87 70	86 73	87 73	87 74	87 73	87 74	87 73	86 74	87 75	86 69	87 67	85 67	85 67	85 75	86 74	86 72	86 74	86 72	86 70	85 68	86 72	85 68	84 72	82 71	82 71	85.7 71.2	
WAIMANALO EXP FARM	MAX MIN	82 74	84 74	84 74	85 74	85 73	85 74	85 72	85 74	85 73	84 71	84 73	84 74	85 72	86 73	85 72	84 72	84 73	85 66	84 69	84 70	82 75	83 70	82 70	82 72	82 72	82 70	80 71	82 69	83 65	81 69	82 69	83.4 71.4	
• • • ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	82 72	81 70	82 73	83 70	84 70	83 70	86 70	83 70	83 71	83 74	83 72	81 67	85 67	84 71	83 70	81 69	81 75	81 65	82 65	77 67	84 72	82 72	80 72	83 72	80 70	80 70	84 69	82 64	84 64	83 70	81 73	82.4 69.9	
• • • ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	77 64			78 59	76 63	78 64	78 62	78 64			77 63	78 65	78 63	79 63	78 63			79 63	78 59	73 59	79 65	76 63				79 62	77 64	75 63	75 60				
• • • ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	65 55	61 45	60 43	61 39	63 40	67 40	61 42	64 46	69 49	66 49	68 44	63 40	59 42	60 40	61 41	70 49	63 41	60 41	58 42	64 50	68 54	69 47	66 45	69 46	64 47	64 40	60 37	58 39	57 43	63 50	68 54	63.5 44.1	
HALEAKALA SUMMIT 338.4	MAX MIN	55 38			57 36	58 44	58 42	54 42	57 45			60 42	60 42	57 42	62 48	61 45			58 36	53 41	56 42	55 41	57 44				52 42	54 40	53 40	56 37	56 38			
HANA AIRPORT 355	MAX MIN	84 65	85 64	84 65	84 65	85 65	82 66	85 66	83 64	84 66	86 66	85 66	85 66	85 66	85 63	85 61	84 62	85 61	80 59	84 68	80 69	84 65	83 65	82 65	82 60	83 64	82 64	82 60	81 62	80 66	82 66	83.5 64.5		
KAANAPALI AIRPORT	MAX MIN	84 66	82 67	84 66	84 64	85 60	84 64	84 63	85 67	84 67	84 66	84 66	84 67	82 69	86 65	84 66	84 64	82 62	84 66	81 67	84 67	82 65	82 65	83 66	83 66	82 66	83 66	82 64	83 68	82 68	82 66	83.3 66.1		
KAHULUI WSO 398	MAX MIN	86 71	88 70	87 69	86 62	88 69	86 62	87 68	87 70	89 71	87 72	88 65	87 64	92 67	88 65	88 66	86 66	85 62	86 62	81 62	87 70	86 71	87 70	86 65	87 65	88 62	84 63	86 60	88 68	85 71	85 65	86.7 66.6		
KAILUA 446	MAX MIN	78 67	78 67	79 64	78 65	78 65	78 65	76 67	78 67	78 67	78 67	79 67	79 67	79 67	79 68	79 68	79 67	79 67	78 64	78 65	78 67	78 67	78 65	77 65	77 65	78 65	77 65	78 63	77 62	79 63	79 63	78.3 65.5		
KEAWAKAPU BEACH 260.2	MAX MIN	89 65	87 66	90 64	90 63	86 62	87 63	85 66	87 64	87 65	90 65	87 65	87 65	87 68	90 62	86 62	86 64	86 64	86 62	86 62	91 69	89 64	88 66	88 64	88 64	86 64	88 66	84 66	89 63	85 71	85 65	87.5 64.7		

See Reference Notes Following Station Index

DAILY TEMPERATURES

Continued		DAILY TEMPERATURES																															HAWAII OCTOBER		1971
Station		Day of Month																															Average		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
KULA SANATORIUM 267	MAX MIN	72 59	70 59	75 57	73 57	74 56	71 57	72 59	75 57	73 58	73 58	72 58	74 59	72 60	73 58	75 57	75 56	72 57	72 57	73 57	76 58	75 57	74 58	72 57	75 57	73 58	73 57	72 57	71 56	75 57	73 60	76 59	73.3 57.6		
LAHAINA 361	MAX MIN	87 67	89 67	89 68	89 67	88 67	88 67	88 69	88 68	88 68	87 68	88 69	87 68	88 70	88 68	87 65	87 66	88 66	88 66	87 66	88 68	87 67	89 70	90 69	88 70	86 70	87 69	86 67	85 66	85 69	84 70	86 68	87.5 67.8		
WAILUKU 386	MAX MIN	83 71	81 70		82 70	81 71	82 72	82 73	81 70		82 70	82 70	85 70					82 67		81 69	80 71	82 72	82 70	81 70		83 70	81 67	81 69	80 66	82 68			81.7 69.8		
* * *																																			
ISLAND OF HAWAII																																			
HAIRIA 214	MAX MIN	82 69	80 69	82 65	82 67	82 66	82 66	78 67	82 67	83 68	82 67	82 69	82 67	83 65	81 70	82 66	81 65	81 65	82 66	82 64	77 69	80 68	81 67	61 68	81 68	82 66	81 65	81 67	82 66	82 69	81 66	81 68	81.3 67.0		
HAWAII VOLCNS NP HO 54	MAX MIN	70 55	64 54	69 54	70 53	71 53	70 57	67 56	72 53	72 55	70 56	69 50	74 53	70 53	68 52	72 46	73 48	72 48	75 54	68 54	67 56	69 52	65 53	75 52	72 52	71 50	69 55	69 57	64 58	67 50	67 53	69.9 53.0			
HILO WSO 87	MAX MIN	82 68	84 66	83 68	83 64	85 65	81 71	83 69	83 67	84 68	83 68	86 69	87 65	86 68	85 69	84 65	84 63	85 64	84 63	85 64	82 67	84 67	83 68	83 66	84 66	86 66	84 66	82 66	85 69	79 72	83 70	82 67	83.7 67.0		
KAINALIU 73.2	MAX MIN	80 63	74 62	78 60	79 61	80 60	80 61	79 64	76 61	79 63	80 63	81 61	79 62	77 62	77 63	79 61	77 60	79 60	76 59	78 62	79 63	78 61	79 61	77 61	76 61	78 61	79 60	80 61	81 64	79 64	79 66	78.1 61.7			
KAMUELA 192.2	MAX MIN	73 60	72 59	75 60	73 60	74 58	75 53	76 56	74 59	73 60	74 60	74 60	75 60	78 56	75 59	74 59	72 50	74 50	79 54	76 48	74 51	73 60	72 58	74 53	75 47	77 50	75 59	76 54	78 56	77 50	80 53	74.8 55.8			
KEAAU 92	MAX MIN	81 67	79 65	81 65	81 64	81 63	79 65	81 66	82 66	82 65	82 67	81 68	82 63	84 62	83 66	80 65	82 61	82 61	82 61	82 62	82 63	80 66	81 67	82 64	82 64	82 64	82 64	81 65	83 66	83 66	78 65	80 65	81.2 64.5		
KEALAKEKUA 26.2	MAX MIN	79 66	75 64	79 63	79 62	80 62	80 62	78 65	79 63	79 65	80 64	81 63	80 64	80 64	77 64	80 64	79 63	79 62	79 60	76 60	78 64	79 65	78 64	79 63	77 63	77 63	77 62	77 63	79 62	80 65	78 66	81 67	78.6 63.5		
KOHALA MISSION 175.1	MAX MIN	80 69	80 70	82 67	82 67	81 68	79 68	75 69	80 69	80 69	80 68	80 65	81 65	81 66	81 67	79 68	80 64	81 64	80 66	79 66	81 66	80 69	79 67	79 67	80 67	82 67	82 66	80 65	82 66	83 69	80 70	80 67	80.3 67.2		
KONA (KAILUA) 68.3	MAX MIN	85 72			85 68	85 69	85 70	85 72	85 70		87 71	86 70	85 71	83 70	85 70			85 67	86 67	85 67	86 73	86 72			85 71	86 70	86 69	85 70	85 71	85 69	85 70				
KULANI CAMP 79	MAX MIN	64 52	61 50	63 50	64 46	65 44	60 53	65 53	63 48	67 50	67 49	65 52	54 46	67 47	62 48	64 40		67 42	67 45	68 44	69 48	65 49	64 50	63 47	61 47	64 44	67 47	53 45	65 45	63 45	65 45	63.9 47.6			
MAUNA LOA SLOPE OBS	MAX MIN	52 37	53 36	57 35	58 39	62 42	55 38	55 39	55 38	57 38	58 40	54 37	54 37	58 39	60 42	56 39		52 35	49 31	50 33	58 36	59 40	59 39	58 41	58 41	58 39	54 37	52 33	50 34	48 37	48 39	56 37	55.0 37.6		
MOUNTAIN VIEW 91	MAX MIN	77 62	77 59	77 59	77 58	78 58	78 58	72 60	77 61	78 61	78 61	78 58	79 60	78 60	76 60		81 55	81 55	81 55	81 55	80 58	75 63	77 64	77 64	77 64	77 58	81 59	76 58	76 58	77 58	74 58	74 58	77.5 59.0		
NAALEHU 14	MAX MIN	80 70	80 70	82 65	82 65	80 67	81 69	81 68	80 64	80 64	82 66	82 66	80 65	80 69	81 68	80 64	80 64	81 64	81 64	82 66	80 70	80 68	80 70	80 66	80 66	80 66	81 67	81 67	80 69	80 69	80 67	80 67	80.6 66.9		
OOKALA 223	MAX MIN	81 67	78 67	81 61	82 66	81 66	82 68	80 68	80 67	81 67	81 67	81 67	82 66	81 66	81 67	81 64	81 64	81 64	81 64	79 63	80 66	80 66	80 66	80 66	81 66	80 66	80 66	81 66	80 66	80 66	82 66	80 66	80.6 66.3		
OPIHIHALE 2 24.1	MAX MIN	75 63	74 60	75 60	76 59	80 59	77 61	78 61	79 62	80 61	78 61	77 62	75 62	77 60	78 60	77 61		79 61	75 57	75 56	77 63	78 61	78 62	77 60	74 58	77 60	77 58	77 58	78 61	79 63	79 65	76 60	77.0 60.3		
PAHALA 21	MAX MIN	81 67			85 62	83 62	82 62	82 67	80 63		84 62	82 61	83 61	82 61	80 66	83 61			82 60	83 59	84 66	83 64	82 65	82 65		82 63	84 63	82 62	83 62	81 62	81 65				
PUAKO 95.1	MAX MIN	86 76	85 73	86 73	87 71	85 69	85 65	87 72	87 73	87 74	87 73	86 69	86 70	84 68	85 68	86 66	86 66	85 66	86 70	86 73	87 72	87 66	88 66	88 66	85 69	85 68	86 66	86 70	81 71	84 70	85.8 70.2				
UPOLU POINT USCG 159.2	MAX MIN	82 67	82 72	80 72	82 70	84 67	81 69	83 68	83 71	83 71	85 70	85 69	84 70	84 66	82 72	84 67	82 70	81 67	81 67	84 69	78 73	82 67	82 67	80 66	83 66	81 70	80 72	80 73	82 68	83 75	82 74	81 75	82.1 70.0		

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *	ISLAND OF KAUAI																																
LIHUE WSO 1020.1	EVAP	.31	.29	.31	.29	.27	.30	.32	.29	.24	.30	.31	.29	.13	.20	.36	*	*	.95	.28	.28	.21	.26	.38	.32	.32	*	.56	.16	.15	-	.02	8.378
	WIND	212	214	192	116	109	140	146	144	136	139	118	136	77	80	81	173	109	83	54	182	189	267	270	256	194	151	116	85	56	75	101	4552
	MAX	82	83	82	84	84	84	84	84	84	84	83	84	83	80	81	84	84	85	81	82	75	79	79	80	80	81	84	83	83	68	66	81.0
	MIN	63	63	62	62	62	64	64	64	64	64	64	64	63	63	63	63	62	58	58	60	65	63	63	63	63	62	63	58	58	61	63	62.3
* * *	ISLAND OF OAHU																																
HONOLULU OBSERV 702.2	EVAP	.16	.30	.37	.30	.30	.21	.30	.27	.27	.23	.30	.24	.08	.35	.45	.21	.23	-	.15	.16	.21	.16	.48	.15	.30	.25	.15	.15	.25	.43	.05	7.718
	WIND	33	40	39	35	26	26	24	27	27	28	28	32	31	19	42	43	20	23	24	25	48	50	51	44	30	29	23	17	20	33	14	951
	MAX	86	89	88	90	90	86	92	90	90	89	91	89	90	91	90	89	89	87	90	91	83	88	87	87	86	91	90	89	89	87	75	88.4
	MIN	66	66	65	65	64	65	65	64	64	67	66	66	67	66	64	65	65	63	63	63	63	66	66	66	65	66	64	62	63	67	65	65.0

See Reference Notes Following Station Index

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STATION INDEX

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CONTINUED

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER									
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)										TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)										
ISLAND OF HAWAII																																		
MIDDLE PEN 147-1	A 6270	01	N KOHALA	1	20 06	155 50	1380	VAR					KAMUA RANCH	WAIAKEA SCO 88-2	9025	02	S HILO	2	19 40	155 08	1050	7A				SHINICHI KANEHIRO								
MOULUA 18	A 6407	03	KAU	1	19 11	155 30	800						HAWAIIAN RANCH CO	WAIKANONOLU 178-6	9350	01	N KOHALA	1	20 08	155 47	3830	7A				KAMUA RANCH								
MOUNTAIN VIEW 91	A 6552	02	PUNA	1	19 33	155 07	1930	6A	6A				PUNA SUGAR CO																					
NAALEHU 14	A 6588	03	KAU	1	19 04	155 35	673	8A	8A				HUTCHINSON SUGAR CO																					
NAPOOPOO 28	A 6697	04	S KOHA	1	19 28	155 35	395	7A					KONA EXPERIMENT STA																					
NIULI 179	A 6806	01	N KOHALA	1	20 14	155 45	75	6A					KOHALA SUGAR CO																					
ONOKA 223	A 7131	02	N HILO	1	20 01	155 17	430	7A	7A				LAUPAHEHOE SUGAR CO																					
OPINIAHOLE 2 24-1	A 7186	04	S KOHA	1	19 46	155 33	1270	7A	7A				MISS C LEONARD																					
ORCHID LAND EST 91.5	A 7189	02	PUNA	1	19 34	155 00	445	VAR					BOARD OF WATER SUPPLY																					
PAAHU 217	A 7204	01	HAKAKUA	1	20 05	155 26	415	7A					PAAHU SUGAR CO																					
PAUULO 221	A 7312	01	HAKAKUA	1	20 03	155 22	800	7A					HAKAKUA MILL CO																					
PAHOLA 21	A 7421	03	KAU	1	19 12	155 29	870	8A	6A				HAWAIIAN AGR CO																					
PANDA 65	A 7457	02	PUNA	1	19 30	154 57	670	6A					PUNA SUGAR COMPANY																					
PAKAD 37	A 7643	03	KAU	1	19 22	155 28	5000						HAWAIIAN RANCH CO, INC.																					
PAPAIOU 144-1	A 7711	02	S HILO	1	19 47	155 06	200	7A					MAUNA KEA SUGAR CO.																					
PAPAIOU MAUKA 140-1	A 7721	02	S HILO	1	19 47	155 08	1270	7A					MAUNA KEA SUGAR CO.																					
PEPEKED MAKAI 144	A 8000	02	S HILO	1	19 51	155 05	190	7A					PUPEKED SUGAR CO																					
PIIKOHUA 89	A 8051	02	S HILO	1	19 44	155 10	1790						STATE DIV OF FORESTRY																					
POHAKULOA 107	A 8063	02	HAKAKUA	1	19 45	155 32	6511	VAR					STATE DIVISION OF PARKS																					
PUAKI 95-1	A 8166	05	KOHALA	1	19 59	155 50	5	8A	8A				ERWIN H. KAPP																					
PUU KIME 120	A 8393	01	HAKAKUA	1	19 54	155 24	7750						KUKIAU RANCH CO																					
PUU LAU 102-1	A 8452	05	HAKAKUA	1	19 50	155 36	7440						STATE DIV OF FISH-GAME																					
PUU LEMUA 73	A 8460	04	N KOHA	1	19 34	155 49	4880						W.M. GREENWELL RANCH																					
PUU MAIL 113	A 8515	01	HAKAKUA	1	19 55	155 26	6960						KUKIAU RANCH CO																					
PUU OO 82	A 8550	02	S HILO	1	19 44	155 23	6340	6A					MISS JACKIE BENLIER																					
PUU WAHAA 94-1	A 8553	05	N KOHA	1	19 47	155 51	2520	7A					DILLINGHAM RANCH INC																					
SADDLE ROAD 1 84	A 8590	02	S HILO	1	19 42	155 12	2340						BOARD OF WTR SUPPLY																					
SOUTH POINT CORRAL 3	A 8675	03	KAU	1	18 57	155 41	500						HAWAIIAN RANCH COMPANY																					
UMIKIDA 118	A 8780	01	HAKAKUA	1	19 59	155 23	3420	7A					KUKIAU RANCH CO																					
UPOLU POINT USCG 159-2	A 8850	01	N KOHALA	1	20 15	155 53	61	8A	8A				U S COAST GUARD																					

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in "F.", precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.

No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates.

++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly; usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

SS Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.

SSS Observation time is near sunset.

VAR Observation time is variable.

W1 Gage read weekly or irregularly only.

W2 Gage read weekly and last day of month.

Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be sent payable to the Superintendent of Documents. Resittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center

USCOW-NOAA-ASHEVILLE, N.C. 2/2/72-690

U.S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE



CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

NOVEMBER 1971

Volume 67 No. 11

MAR 30 1972

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature										Precipitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Total	Departure From Normal	Greatest Day	Date	Snow. Sleet			No. of Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 133

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
NOVEMBER 1971

Station		Temperature											Precipitation											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
											Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											90° or Above	32° or Below	32° or Below	0° or Below										
KEAAU 92		78.4	64.4	71.4	- 1.2	81	6+	62	21+		0	0	0	0	19.08	5.15	4.20	25	.0	0		27	11	5
KEALAKEKUA 26.2		77.3	62.3	69.8		80	19+	59	23+		0	0	0	0	5.32		1.05	13	.0	0		13	3	1
KONA (KAILUA) 68.3	A	84.4M	69.2M	76.8M		88	9+	66	30		0	0	0	0	2.19	- 4.72	1.30	12	.0	0		4	2	1
KUKUIHAELE HIC 199															2.04		.40	9	.0	0		6	0	0
KULANI CAMP 79		58.9	46.4	52.7		65	5	35	11		0	0	0	0	17.89		3.02	25	.0	0		25	9	6
PAHALA 21	A	M	M	M		84	9	60	30+		0	0	0	0	13.08	7.64	5.18	25	.0	0				
PONAKULOA 107	A														1.48				.0	0				0
PUAKO 95.1	A	84.1	69.1	76.6		87	9+	66	30+		0	0	0	0	.03		.02	25	.0	0		0	0	0
PUU WAAHAA 94.1	A														1.38	- .71	.37	15	.0	0		0	0	0
UMIKOA 118															2.53	- 3.87	.89	9	.0	0				0
WAIKOA SCO 88.2															27.41		3.79	25	.0	0		27	14	10
ISLAND				69.3											7.80				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 90° ON THE 6TH AT KAHULUI WSO 398 AP, MAUI

LOWEST TEMPERATURE: 29° ON THE 22D AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 35.83 INCHES AT KIPA 89.2, HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 9 STATIONS

GREATEST ONE-DAY PRECIPITATION: 6.85 INCHES ON THE 25TH AT NAALEHU 14, HAWAII

SPECIAL WEATHER SUMMARY

November continued what has thus far been a quiet winter, in contrast to last year's tempestuous weather. But there were occasional reminders of the season.

Toward the end of the month, a westward moving area of low pressure (trough) in the upper atmosphere brought a surge of rainfall to the southeastern slopes of Hawaii Island. The bulk of the rain occurred between about noon on the 24th and 8 p.m. of the 25th, with totals of 8 to 10 inches between South Point and the Pahala area. Although intensities did not exceed about 1.25 inches an hour, there was some flooding of fields and roads, with the Belt Highway closed for several hours.

On the 27th, surf along the north shores came up for the second time this season. The big waves, which reached heights estimated at up to 20 feet at Sunset Beach, contributed handsomely to a surfing exhibition, but did no damage, although the usual number of swimmers and surfers had to be helped ashore.

Otherwise, trade winds predominated throughout the month with small craft warnings in effect on four separate occasions, for a total of slightly over 7 days.

Although in terms of water availability, the State seemed to be recovering from the drought of earlier this year, rainfall remained deficient over large areas of all the islands. Thus, while good showers broke an 8-month dry spell in the Waimea area of Hawaii Island, Wailuku, on Maui, registered its tenth successive month of below-normal rainfall, with amounts less than one-fourth of the monthly mean in eight of those months. Elsewhere, western Kauai, Lanai, Maui's southwestern coast and central valley, and other scattered gages also had less than one-fourth their average November rainfall.

Also worthy of note were the funnel clouds reported from Wheeler Air Force Base, Oahu, on November 3 and from Lihue, Kauai, on November 15. In the former instance, two funnels reached to within about 1,000 feet of the ground from cumulus clouds with bases at 4,000 feet and tops at 6,000 feet. The Lihue sightings also involved two funnel clouds. These were columnar in shape, one dark and one white, and extended down about 1,500 feet from cumulus clouds whose bases were estimated at 2,200 feet and tops at 4,500 feet. Most remarkable about these occurrences is that the funnels appear to have come from clouds only 2,000 to 4,000 feet thick, in contrast to the towering cumulo-nimbus clouds with which they are ordinarily associated.

Stations With Less Rain in November 1971
than in Any Previous November

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Least November Total	November 1971
<u>MAUI</u>			
Keahua	63	.34 inches	.22 inches
Waikapu	79	.17 inches	.06 inches

Saul Price
Regional Climatologist for Pacific Region
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
NOVEMBER 1971

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
ANAHOLA 1114	A	3.49	.85						.07	.10	.11	.15			1.30	.45	.09						.20	.04	.03					.07	.03		
BRYESWOOD STA 985	A	5.12	.85	.02	.06	.06	T		.59	.25	.08	.58	.12		.13	.02	.08	.16	.07				.53	.04	.04					1.08	.06		
EAST LAWA 934	A	5.44	.86	.05	.02				.57	.30	.21	.48	.16		.15	.02	.06	.22	.07				.89	.08	.09					.81	.38		
ELEELE 927	A	2.51	.90	T	.12				.11	.06	.01	.06	.03		.10	T	.01	.03					.40	.06	T					.30	.32		
MAULA 1110	A	4.62	1.10						.15	.07	.05	.23			2.10	.20	.11						.25	.05	.07					.20	.04		
HALENANAO 1006	A	5.82	.74	.12	.07	.12			.52	.24	.23	.29	.03		1.33	.05	.22		.04				.56	.08						1.02	.16		
HUKIPO 945	A	.10																															
ILILILUA INTAKE 1050	A	15.11	1.85	.29	.14	.44	.08		.84	.35	.22	.99	.69		2.13	.35	.76	.26	.17				1.35	.05	.19					3.64	.07		
INTAKE WAINIMA PC 1086	A	8.20	.95		.08				.93		2.03	1.40							.31				1.26							1.24	.06		
KANALOHULU 1075	A	1.43	.02		.02		.02		.09	.19	.24	.13	.10	.02		.01				.09	.14		.05	.04		.10	.06	.06		.05			
KANEHA RESERVOIR 1092	A	9.55	1.40		.07	.04	.10		.30	.30	.10	.35	.11		4.20	.76	.40		.03				.59	.05	.30					.30	.15		
KAPAA STABLES 1104	A	6.27	1.28			.05			.10	.14	.10	.35			3.40	.04	.23	.03					.30		.05					.13	.07		
KEALIA 1112	A	3.90	.90						.10	.07	.15	.14			1.60	.25	.10						.45	.03	.03					.06	.02		
KEKANA 944	A	.04																															
KILAUEA 1134	A	5.14	.59	.02	.02	.09	.02		.14	.17	.16	.60	.13		2.01	.05	.66	.03	.03				.22	.07						.12	.01		
KILAUEA FIFLO 17 1135	A	7.67	1.03	.09	.01	.12	.01		.30	.16	.23	.55	.31		2.60	.07	.47	.07	.07				.40	.05						.62	.31		
KILAUEA POINT 1133	A	8.64	.14	.06	.11			.08	.07	.08	.41	.14	.50		1.99	.03	1.98	.19	.23	2.00					.10	.40			.03	.01	.10		
KOLOA 936	A	5.77	1.24	.05		.10			.48	.28	.19	.83	.11		2.01	.05	.10	.04	.04				.64	.16						.75	.54		
KOLOA MAUKA 994	A	6.00	.91	.14	.08	.24			.87	.41	.17	.80	.23		.48		.08	.26					.91	.12						1.41	.75		
KOLOKO RES 1137	A	7.99	1.12	.05	.02	.12	.01		.21	.13	.23	.36	.06		3.56	.21	.47	.06	.06				.43	.06						.65	.18		
KUKULUA 935	A	3.10	1.04	.01	T	.13			.31	.16	.08	.36	.05		.02	T	T	.01	.01				.30	.03	.06					.28	.26		
LIHUE VARIETY STA	A	4.68	.01	.01	.01	.48	.08		.11	.25	.11	.07	.05	.04	1.14	.12	.71	.02	.02	.20	.29		.05	.17	.13	.63	.10		.02	.04			
LIHUE 1020	A	4.67	1.33	.02		.06		T	.02	.10	.07	.14			1.65	.01	.24	.03					.24	.05	.10					.61			
LIHUE WSO 1020.1 AP	//R	2.25	T		.01	.11	T		.08	.02	.11	.01	.04		.64	T	.45	T	.01	T	.19	.06	.02	.05	.25	.22	T						
MAKAHUNA POINT 940.1	A	1.71				.04	.01		.19	.09	.13	.15	.01		.02			.02	.01			.05	.10	.02	.02	.03	.12	.02		.68			
MAKAHUI 965	A	.73				.14		.01	.01		.02	.02						.02				.08	.02			.11				.23	.09		
MANA 1026	A	.00																															
MOHIMI UPR CROSS 1083	A	3.09				.49			.25	.16	.41	.49	.08	.16					.08	.25	.16		.08		.16			.08		.15	.26		
MOLOAA 1145	A	3.93	.46						.08	.09	.24	.14			1.55	.37	.45						.14										
MOUNT WAILALEALE 1047	R																																
NIU RIDGE 1035	A	.34											.10				.13																
N WAILUA DITCH 1051	A	18.43	2.00	.36	.20	.20	.30		1.10	.36	.40	.90	.46		3.10	.36	1.16	.36	.16				1.50	.36	.20			.08		4.20	.75		
PRINCEVILLE 1115	A	6.75	.01	.01	.02			.02	.22	.35	.35	.85	.27	.26	.02	.02		.06	.03	.24	.54		.13	.02	.11	.98	.21		.01	.02	T		
PRINCEVILLE RANCH 1117	A	4.01		.04					.14	.12	.19	.55	.22		.62		.66	.06	.03				.49	.11	.04					.64	.10		
PUEHU RIDGE 1040	A	.23							.05		.23					.05											.03						
PUEHU 1013	A	5.41	1.46	.07	.02	.11	.02		.54	.25	.22	.43	.11		.95	.10	.07	.02	.02				.32	.08						.81	.04		
RESERVOIR 6 1004	A	1.98	.63	T					.23	.18	.01	.09	.05		.01	T	T	.03	.01				.30	T	T					.18	.26		
WAILANA MOUNTAIN 990	A	11.00																													11.00		
WAIHAI LOWER 1054	A	8.80	.04	.12	.06	.04	.18		.34	.35	.23	.56	.10	.20	2.01	.17	.16	.19	.21	.17	.28	.61	.16	.11	.19	1.50	.35	.17	.12	.08	.29		
WAIHAI UPPER 1052	A	11.29	.20	.25	.25	.23	.08	.10	.10	.50	.25	.20	1.05	.65	.30	.41	.99	.25	.50	.20	.15	.40	.55	.05	.03	.21	2.30	.64	.09	.12	.09	.15	
WAILANA 943	A	.09																															
WAILUA KAI 1065	A	3.90	1.48		.05				.11	.10		.14			1.20		.09						.23	.08	.05					.43			
WALHEA 947	A	.08																															
WEST LAWA 931	A	3.28	.68	T	.01				.46	.27	.16	.40	.07		.03		.05	.02	T				.38	.05	.07					.30	.33		
ISLAND OF OAHU																																	
BERETANIA PUMPING STA	A	1.85			.01	.01	.01	.02	T	T	.18	.28	.05	.02	.12	.35	.01	.01	T		.12	.02	.17	T			.39		.06	.01	.01		
CAMPBELL LNO PK 702.5	A	1.00																					.70		.30								
CAMP 84 807	A	2.11	.96	.01		.02			.04			.03			.05		.05		.05				.12							.83	.03		
CHURCH COLLEGE LAIE	A	1.91		.03	.18				.17	.01	.12	.17	.02		.41	.32	.09	.08				.11	.01		.12	.01				.02	.11		
CODDUT ISLAND 840.1	A	2.64	.04		.57	.16	.02	.01	.09	.03	.08	.08	.02		.14	.06	.55		.03	.09			.03	.09	.10	.12	.13		.02		.03		
EWA PLANTATION 761	A	1.44								.34	.03					.60			1.20				.01				1.34				1.70	.06	
HELEMANU INTAKE 881	A	5.71	1.31			.56			.05	.34					.60								.13						1.37		.03		
HONOLULU 725.2	A	2.12							.02	.06	T				T	T						T				.77	.43						
HONOLULU OBSERV 702.2	A	1.32																															
HONOLULU WFO 703 AP	R	.95	.02	T		T	T	T	T	T	.05	.11		.16	.02		T	T	T	T	T	T	T	T	.03	.41	.01			.02			
HONOLULU SUBSTA 704	A	1.08			.06					.05	.11				.16	.02					.05	.05	.03		.13	.24		.04	.04				
H S P A EXP STA 707	A	2.33		.01		.01	.05		.03	.03	.54	.33	.05	.06	.07	.24	T	.09	T	T	.08	.07	.04		.14	.08	.29	.04	.11	T	.01		
KAHANA 883	A	21.90							9.60		.05	.10			3.36								2.14							6.80	</		

HAWAII
NOVEMBER 1971

Continued

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF MOLOKAI																																		
KALAUPAPA 563	A	2.19								.03	.31		.06	.04		.06	.12	.03	.05	.23	.02			.06	.01	.78	.23	.03			.13			
KAUNAKAKAI 936	A	.77																									.77							
KEONELE PENS 551	A	.00																										*	*	*				
KUALAPUU 534	A	1.58																										*	*	*				
HAPULEHU 542	A	2.76	.08	.01					.02	.04	.27	.24	.01	.32	.17	.01	T	.02	.01	.01	.19	*	*	.03	.05	T	.08	*	*	*		1.19	.01	
HAUNALOA 511	A	1.06				.01					.01	.39						.41				*	*	.01	.02	*	*	*			.22			
MOLOKAI AP 524	A	1.08	-	-	-	-	-	-	-	-	.01	.35	-	-	-	-	-	-	-	-	-	.01	.01	.02	T	T	T	.68	T	T	-	-	-	
PUDOHOKU RANCH 542.1	A	1.52																								1.52								
WAIKOLU 540	A																																	
ISLAND OF LANAI																																		
LANEPUU 690	A	.16					*	*	*	*	*	*	.14	*	*	*	*	*	*	.02							*	*	*	*		.25		
KAUHALAPAU HARBOR 658	A	.25	*	*	*							.06	*				T										*	*	*	*		.11		
LANAI CITY 672	A	.42	*	*	*	.13	*	*	*	*	*07							*	*	*	*		.12	.04	
LANAIIHALE 684	A	.79	*	*	*	*	*	*	*	*	*							*	*	*	*		.51		
MAHANA 694	A	.02										.02	*				.28									*	*	*	*					
MALAUFA 676	A	.13	*	*	*	*	*	*	*	*							*	*	*	*				
WAIKAEAKUA 685	A	.14	*	*	*	*	*	*	*	*							*	*	*	*			.13	
ISLAND OF MAUI																																		
MAUWAHI-252	A	1.16									.25	.18	.73	.21	.20	.17	.06	.05	.12	.26		.39		.01	.06	.67	.54	.12	.60					
HALEKALUA B E S 434	A	3.81		*	*	*	*		.04		.25	.18	.73	.21	.20	.17	.06	.05	.12	.26		.39		.01	.06	.67	.54	.12	.60					
HALEKALUA RANCH 432	A	.93	*	*	*	*	*		.04		.25	.18	.73	.21	.20	.17	.06	.05	.12	.26		.39		.01	.06	.67	.54	.12	.60					
HALEKALUA RS 338	A	1.65							T	T	.05	.06	.30	.01	T	T	.08	.06	.07	.03	T	T	.03	.21	.51	.08	*	*	*		.09			
HALEKALUA SUMMIT 338.4	A	3.32	.08	T	T	.01	.07	*	.12	T	T	.05	T	T	*	*	.37	.02	.09	.03	T	T	.05	.01	.01	.03	*	*	*		2.30	.15		
HAIIIMAILE 423	A	1.48							*	.02	.05	.06	.47	.06	.06	*	.06	.05	.08	.02	*	*		.21	.22	*	*	*	*		.12			
KAUNIAUPOKO 485	A	4.19							.07	.09	.15	.16	.48	.33	.19	.06	.20	.01	.47	.29	.07	.18	.05	.05	.07	.89	.22	.63	.02		.11			
HANA 354	A	7.07	.11	.18	.06				.32	.09	.30	.98	.07	.07	*	1.45	.13	.09	.09	.12	.22		.15	.20	.25	.30	.01	.01		.29	.79			
HANA AIRPORT 335	A	5.72	.10	.05	.09		.13	.02	T	.20	.17	.11	.70	.31	.11	.10	.42	1.02	.09	.19	.02	.35	.07	.03	.04	.49	.32	.06	.09	.29	.11	.04		
HANAHULI 281	A	3.62	.05	.12	.08				.16	.05	.22	.06				.12	.20	.22	.03	.25	.15	T		.05	.26	.56	.22	.18	.10	.20	.12	.15		
HOLUA CABIN 259.5	A	3.34	*	*	*				*	*	*	*	.85	*	2.00	*	*	*	*	*	*	.38	*	.10	.04	*	*	*	*		7.86			
HONOKOHU 480	A	7.86	*	*	*				*	*	*	.26	.28	.63	*	.10	*	.05	.03	*	*		.15	.14	.21	*	*	*	*		.34			
HONOKOHU 493	A	2.23	*	*	*				.02	.02						.10	*	.05	.03	*	*		.15	.14	.21	*	*	*	*		.34			
HONOHANU GULCH 341	A	4.00	*	*	*						.11	.02	T	.01	*	.06				.06		.01	.01		.06	.01	.01	*	*		4.40			
KAHANAPALI AIRPORT	A	.30																																
KAHOMA INTAKE 374	A	2.50	*	*	*				*	.05	.01	.05	T	.01	T	T		.02	*	*	T	*		.09	.01	T	*	*	*	*		2.50		
KAHULUI WSO 398 AP	A	9.94	*	*	*				*	.05	.01	.05	T	.01	T	T		.02	*	*	T	*		.09	.01	T	*	*	*	*		8.00		
KAILIHI 436	A	8.00							.51	.32	.35	.80	.58	.75	.42	.27	.89	.10	.73	.60	.03	.45	.30	.15	.43	1.15	1.39	.11	.05		.23	.06		
KAILUA 446	A	11.33	.12	.34	.15			.04													.46													
KAUULA INTAKE 375	A	1.36																																
KEAHUA 410	A	.22									T	.12		.01	T	T										.03	.01	T	*	*		17.30		
KEANAE 346	A	17.30	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
KEAWAKAPU BEACH 260.2	A	.00							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
KIHEI 311	A	6.80	.16	.20	.06				.20	.16	.15	.45	.52	.14	.22	.17	.84	.23	.53	.26	.07	.31	.12	.36	.35	.44	.10	.22	.26	.12	.16			
KIPAHULU 258	A																																	
KULA HEIGHTS 323.2	A	.20						.07					.03																					
KULA SANATORIUM 267	A	.30																																
LAHAINA 361	A	.00																																
LAUNIUPOKO INTAKE 376	A	2.40	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		2.40	
LAUNIUPOKO VILLAGE 372	A	.00							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
LUPU UPPER 442	A	13.50	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		13.50	
MAHINAHINA 466	A	1.88								.12	.50	.33	.13	.10	.03	.57		.02	.03	.01	T		.10		.30	.12				.10				
MAKALELE -FLO 60-497	A	1.31										.05	.16	.02	*	.16	.02	.03	.01	T			.09	.01	.13	.35	*	*	*		.65			
OLINGA 332	A	1.08							T	*		.05	.16	.02	*	.16	.02	.03	.01	T			.09	.01	.13	.35	*	*	*		.65			
OLOWA 296	A	.00																																
OLOWAULU GULCH 377	A	.60	*	*	*				.88	.91	.65	.76	.75	.17	1.03	.57	1.74	.45	1.52	1.25	.37	.54	.45	.33	.55	.87	3.50	1.60	.08	*	.41	.60		
PAEKA 350	A	20.94	.36	.41	.15		.06		.01	.03	.06	.28	.07	.16	.01	.04	.17	.03	.01	.06	T	.01	.01	.31	.05	.04					.41	.59		
PAIA 406	A	1.35																																
PANILEIHU 259.2	A	7.75	*	*	*																													
POHAKA BRIDGE 307.2	A	.02	*	*	*																													
POLIPOLI SPRINGS 267.2	A	.67	*	*	*																											.67		
PUDOHOKA 2 343	A	19.40	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		19.40	
PUU KUKUI MAKAII 472	A	4.00	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		4.00	
PUNENE 396	A	.10							.01	.01	T	.02	T								.01			.05	T									
SPRECKELSVILLE 400.2	A	.56							.02	.03	.03	.10	.02	.05	.02						.07			.20	.01	.01								
TWIN GATES 261.3	A	.00																																
UKULELE 393	A	2.55	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		2.55	
UKUKEHAME 301	A	.00																																
ULUPALAKUA RANCH 250	A	.31															.04	.10													.04			
WAHIKULI 364	A	.00																																
WAIHEHU CAMP 484	A	1.29	*	*	*				*	.06	.29	.34	.09	.20	.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
WAIHEE VALLEY 482	A	2.45	*	*	*				*	.30	.61	.30	.10	.02	*	*	*	*	*	.20	*	*	*	*	*	*	.58	.28	.06	*	*			
WAIKAMOI 449	A	15.60	*	*	*				*	.70	*	1.06	2.64	.04	*	*</																		

See reference notes following Station Index.

DAILY PRECIPITATION

HAWAII
NOVEMBER 1971

Continued

Station	Type	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAWAII LOWER 193	A	6.21					.52						3.28						1.06						1.35								
KEAAU 92	A	19.08	.40	.48	.10		.07	.25	.70	.17	.83	.20	.49	.65	.43	.50	.20	.90	1.36	1.40	.06	.46	.25	.22	.23	.95	4.20	1.47	.11	.10	.15	1.75	
KEALAKEHUA 20.2	A	5.32		.18	.19					T	.27	.06	.28	.18	1.05	T		.01	T		.05	.95	.04	.19		.05	.31	.73	.12	.43	.01	.22	
KEHENA 181.2	A	2.10					2.10																										
KIDAKAA A C F 6	A	17.30																														17.30	
KIPA 89.2	A	35.83	.46	.36	1.00		.18	T	.47	1.32	.35	1.11	.01	1.43	1.03	.94	.57	5.71	.75	3.50	3.10	2.70	.58	.11	.44	.42	1.07	4.60	2.28	.39	.03	.20	.72
KOMALA MAJILLI 176	A	5.65	.29	.14	.08					.09	.44	.04	.21	.62		.21	.08	.09	1.07	.84				.35	.07	.15					.85	.03	
KOMALA MISSION 175.1	A	3.71	.06	.08	.02					.09	.35	T	.14	.49		.03	.10	T	.03	.06	.38	.49	.04	.01	.09	.09	.10	.40	.45		.20	.01	
KOJANE LOWER 196	A	2.90					.10						1.12								.82					.86							
KONA (KAILUA) 69.3	A	2.19											1.30			.19							.03	T			.12				.55		
KONA VILLAGE 93.8	A	.08																															
KUKUIAUI 222	A	7.36				.03	T		T	.15	1.05	.03	.58	1.05	.06		.16		.31	.78	1.21	.14	.02		.04	.14	1.28	.33					
KUKUIAUI HIC 199	A	2.04								.02	.40	.08	.38	.13	.08	.06			.01	.02	.32	.02		.04	.02	.30	.10	.06			.30		
KUKUIAUI MILL 206	A	1.41								.28	.02	.30	.05						.02	.02	.17		.07	.02	.16						.04	.10	
KULANI CAMP 79	A	17.89	.09	.13	.10			.14	.10	.22	.02	.52	.52	.17	.27	.55	.36	1.75	2.60	1.65	.34	.10	.07	.08	1.70	3.02	2.40						
KULANI MAUKA 76	A	5.62					.13	.02	.03		.05	.04	.06	.09	.09		.19	1.82	.51	.07				.73	1.14	.51	.05			.01	.05		
KULANI SCHOOL SITE 78	A	16.36																															
LANIHAU 58.2	A	4.46	.12	.18	.35					.05				1.05			.06		.08		7.40	.39	.09	.08		.18		6.20		.38	.14	.30	
MAKAHAU 103	A	.73																															
MANUKA 2	A	3.80	.00														.60															2.60	
MAUNA LOA SLOPE OBS	A	2.55				.03	.12											.14	.01						.37	.96	.39					.53	
MIDDLE HOLUALOA 68.1	A	3.08		.80																				.23		.25							
MIDDLE PEN 147.1	A	1.25																														1.25	
MOAULA 18	A	9.98																														9.98	
MOUNTAIN VIEW 91	A	25.78	.49	.38	.20		.21	.02	.25	.74	.17	.74	.08	.80	.57	1.08	1.25	.51	1.14	3.12	3.10	1.37	.50	.28	.25	.19	1.27	4.21	1.48	.12	.10	1.42	
NAALEHU 14	A	13.46	.01	T		.02				.03	.05	T				2.34	.01	.06	1.17	.23						.26	6.85	2.28			.12	.03	
NAPPOPOO 28	A	3.27	.41							.56						.79							.57									.94	
NIULII 179	A	2.49		.02						.02	.45		.15	.73		.02		.06	.10	.30			.12	.06	.22						.23		
OKALA 223	A	11.23	.01		.25			.19	.02	1.24	.02	.69	1.12	.07	.01	.62	.03	.39	1.66	1.11	.48	.04	.13	.06	.11	2.20	.78						
OPHIHALE 2 24.1	A	2.98	.38	.03	T			.05	.04	.15	.07	T	.06	T				.03	.29	.04	T				.12	1.06	.30	T	.23	.01	.07	.05	
ORCHARD LANE EST 91.5	A	18.00				2.40							2.64							5.22								7.74					
PAAHUAU 217	A	3.39								.62		.31	.35	.07			.22	.21	.39	.06		.01	.08	.19	.57	.31							
PAAULO 221	A	4.85		.01				T	.03	1.05	.02	.41	.68	.03		.05	.12	.40	.73	.11	.02		.03	.10	.80	.20							
PAMOLA 21	A	13.08	.84			.07			.04							2.20	.19	.07	.89	.01					.25	5.18	3.19			.06	.03	.09	
PAMOLA 65	A	19.70	.59	.38	.17	.22	.48	1.37	.32	.74	.09	.59	.42	.60	.69	.28	.62	2.20	1.29	.22	.23	.13	.11	.32	.88	3.70	1.30	.11		.06	.14	1.45	
PAKAO 37	A	14.40																														14.40	
PAPAIKOU 144.1	A	26.37	.29	.34	.10	.07		.47	.58	.10	.85	.08	.93	1.06	.41	.67	5.80	.53	1.15	1.44	.12	.51	.14	.46	.26	.72	5.05	2.69	.42	.04	.37	.82	
PAPAIKOU MAUKA 140.1	A	30.17	.31	.47	.22	.13	T	.30	1.20	.35	1.38	.12	.82	1.06	.70	.58	3.80	.69	2.20	2.70	1.39	.80	.15	.51	1.03	.82	4.32	2.83	.28	.05	.19	.77	
PEPEKED MAKAI 144	A	20.11	.35	.31	.14	.04		.50	.30	.09	.68	.01	.62	.65	.40	.92	2.85	.53	1.00	.76	.05	.20	.26	.35	.48	.37	4.98	1.64	.06	.03	.56	.98	
PIIMOHUA 89	A	44.00																														44.00	
POHAKULOA 107	A	1.48					.71														.15								.62				
PUAKO 95.1	A	.03																											.02	.01			
PUU KIHE 120	A	1.88																														1.88	
PUU LAUA 102.1	A	2.22																														2.22	
PUU LEHUA 73	A	.90																														.90	
PUU HALL 113	A	.97																														.97	
PUU OO 82	A	13.38			.04	.09	.05		1.18	.08		.09	.27	.34	.06	.23	.50	.47	1.65		5.45	.30		.07								2.51	
PUU WAAHUA 94.1	A	1.38																														.01	
SADDLE ROAD 1 84	A	21.50				2.50								7.00																			
SOUTH POINT CORRAL 3	A	5.86																										12.00				5.86	
UMIKOA 118	A	2.53						.12	.89		.12	.24	.04		.07		.14	.05	.05	.05	.02				.05	.18					.51	.02	
UPDLU POINT USCG 159.2	A	2.17	.13	.04				.01	.06		.18	.01	.07				.05	.03	.69	.11		.02	.08	.02	.03	.58					.06		
WAIKAA SC0 88.2	A	27.41	.38	.32	.24	.12		.57	1.47	.27	1.48	1.05	.35	.60	.66	.38	3.04	1.13	3.50	2.40	1.11	.47	.09	.40	.41	1.16	3.79	.97	.35	.04	.12	.48	

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages— percent				Number of days with precipitation								Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
							02	08	14	20										
HILO WSD 87	19	2.2	6.1	17	SE	26+	86	87	74	89	0	1	17	7	2	2	29	29	7.3	
HONOLULU WSD 703	6	12.0	13.8	29	NE	23	80	77	62	75	15	6	2	0	0	0	23	66	5.9	
KAHULUI WSD 398	6	9.8	11.7	30	NE	17	82	76	55	77	7	7	0	0	0	0	14	72	4.3	
LIHUE WSD 1020.1	7	10.8	12.4	24	NE	09+	77	76	70	75	9	9	6	1	0	0	25	30	6.9	

DAILY TEMPERATURES

HAWAII
NOVEMBER 1971

Station		Day of Month																																Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	70 54	68 52	69 45	68 46	68 47	70 48	69 59	68 58	62 57	64 55	66 54	65 52	68 52	69 48	70 54	70 48	68 50	68 56	68 55	70 55	75 53	65 52	65 51	68 55	68 56	69 58	68 59	67 47	69 44	68 46	68.0 52.2		
KILAUEA POINT 1133	MAX MIN	78 67	81 74	82 64	82 76	77 68	81 76	87 70	80 74	86 69	78 75	77 68	78 75	78 69	80 73	77 68	79 76	77 67	77 76	77 67	79 79	79 67	80 72	79 69	80 74	80 74	77 68	77 72	79 69	77 75	80 75	79.4 71.1		
LIHUE WSO 1020.1 AP	MAX MIN	82 76	82 76	82 72	83 70	82 72	82 71	83 75	81 74	81 72	79 80	81 72	81 74	81 75	81 71	81 68	81 67	81 77	81 77	81 75	82 74	81 71	81 72	81 72	81 74	81 75	81 74	81 73	81 70	81 70	81.3 72.6			
MAKAHUEA POINT 940.1	MAX MIN	85 73	82 73	84 71	78 73	84 70	85 73	85 72	82 73	82 70	80 70	81 69	82 69	79 75	80 67	85 73	81 68	85 76	81 75	82 72	81 69	81 69	80 71	79 67	81 71	88 71	81 73	82 71	82 71	81 74	86 69	84 71	82.3 71.3	
MANA 1026	MAX MIN	84 65	84 67	85 64	86 67	87 64	82 69	81 68	82 65	83 66	87 63	83 62	85 63	84 62	85 63	84 66	83 65	86 65	87 65	86 64	86 68	86 64	86 68	86 62	84 64	87 68	86 67	85 64	86 63	86 65	86 64	86 65	84.6 64.8	
NIU RIOGE 1035	MAX MIN	84 62	84 62	82 61	83 62	84 61	85 62	86 61	84 61	85 63	86 61	80 61	80 62	84 60	83 61	84 60	84 63	82 64	82 64	81 60	80 61	81 61	81 61	79 61	80 60	81 61	80 60	80 61	81 62	81 64	80 63	80 63	82.2 61.6	
WAIHI LOWER 1054	MAX MIN	75 65	75 65	76 62	75 62	77 64	77 64	77 65	73 62	73 66	74 63	74 63	74 65	74 67	75 64	75 61	74 60	75 68	74 68	74 64	74 62	74 64	74 62	73 62	73 62	73 64	73 68	74 67	73 64	74 61	76 61	74.3 64.0		
* * *																																		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	85 68	83 66	83 63	83 63	84 63		84 65	82 65	81 65	80 64	82 64		82 63	82 64	84 69	82 71	83 68	82 73	83 73	84 71	80 68	81 70	81 70	81 71	81 68			82 64	82 61				
HONOLULU WSO 703 AP	MAX MIN	83 71	83 70	83 68	81 67	82 68	85 70	84 74	82 73	80 70	81 70	82 70	82 70	83 70	81 68	81 66	83 68	83 73	84 73	82 71	81 68	80 68	82 70	82 70	82 71	77 71	81 68	82 64	82 67	83 64		82.0 69.4		
HONOLULU SUBSTA 704	MAX MIN	80 75	81 74	81 73	83 71	82 72	83 72	81 73	80 73	79 71	79 70	78 72	78 70	79 68	80 69	80 70	80 73	80 72	79 73	78 69	78 71	78 72	79 71	79 72	79 71	78 72	80 74	77 71	79 69	79 71	81 70	79.7 71.4		
KAHUKU 912	MAX MIN	86 67	84 71	83 70	81 67	83 67		83 71	81 70	80 70	77 72	80 72		81 66	81 70	81 55	81 73	81 74	81 74	81 74	81 74	81 74	80 67	80 70					80 70	80 72				
KANEDHE MAUKA 781	MAX MIN	79 74	80 72	81 70	81 68	81 69	83 72	80 73	79 62	80 70	79 71	79 72	79 68	79 71	79 69	78 69	78 74	79 74	78 74	79 72	79 68	78 70	79 70	78 70	78 73	78 72	78 73	78 72	78 68	78 69	78 69	79.0 70.5		
LUALUALEI 804	MAX MIN	84 66	82 73	84 67	83 65	83 66	86 70	84 72	85 68	82 73	82 71	83 72	83 72	84 71	82 66	84 64	81 66	84 74	84 74	83 74	83 69	83 70	84 69	80 70	80 72	83 70	81 71	82 70	83 71	84 63	80 64	82.8 69.2		
MAKAPUU POINT 724	MAX MIN	77 72	77 70	78 68	81 70	80 57	81 70	81 70	77 52	76 71	75 69	75 60	78 71	75 69	76 69	78 69	79 69	77 73	76 69	76 69	75 69	75 71	75 69	75 68	75 68	75 71	75 69	75 69	76 69	77 68	77 71	77 68	77.0 68.0	
UPAEULA 870	MAX MIN	72 62	71 62	75 60	72 59	80 60	75 60	80 62	80 62	72 61	70 61	65 60	70 60	76 62	77 65	73 61	73 63	72 63	72 63	70 63	72 62	70 62	70 61	70 61	69 61	69 61	69 61	75 64	73 67	77 65	76 60	75 60	73.7 61.9	
PRI WAIHIAWA 820.2	MAX MIN	82 60	81 65	82 62	81 62	83 62	86 62	82 70	86 62	78 67	78 64	80 63	80 63	80 64	79 63	81 60	80 60	82 65	81 69	80 65	79 65	76 63	80 63	78 66	80 66	75 68	74 70	77 66	78 62	80 61	79 62	79.9 64.2		
WAIALEE 896.3	MAX MIN																																	
WAIALUA 847	MAX MIN	83 64	82 65	84 62	84 62	85 63	86 64	84 67	84 68	81 63	81 61	80 60	81 61	82 62	82 61	82 61	83 64	84 68	83 70	84 70	80 61	80 62	80 61	81 62	81 62	82 62	82 66	78 70	82 69	82 62	83 61	83.2 63.5		
WAIKIKI 717.2	MAX MIN	83 73	85 72	85 69	85 68	85 67	85 70	86 68	84 73	83 70	82 71	82 70	82 70	83 71	83 66	83 66	84 70	84 73	83 73	83 73	82 72	82 70	82 70	82 70	82 70	81 72	79 72	83 71	83 68	83 69	83 67	83.2 70.2		
WAIMANALO EXP FARM	MAX MIN	82 73	81 73	81 71	82 68	83 69	84 70	83 72	82 74	82 72	82 70	79 68	80 72	81 73	81 69	80 66	80 70	79 74	80 72	80 73	79 68	79 68	79 69	79 72	79 72	78 72	79 71	80 72	80 72	80 71	80 68	80.5 70.8		
* * *																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	80 70	82 70	81 65	82 65	83 65	83 69	84 70	80 72	80 71	78 69	78 69	79 69	80 68	79 68	82 67	84 67	82 68	80 72	80 71	79 69	78 70	79 70	78 70	78 70	78 71	75 71	83 69	81 72	79 68	82 68	80.3 69.1		
* * *																																		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN																																	
* * *																																		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	68 42	64 41	62 40	58 41	58 39	59 41	64 45	64 48	63 45	63 46	58 36	56 37	60 45	61 39	60 41	58 45	63 49	63 51	66 42	64 47	62 49	62 47	59 43	63 47	58 47	56 51	58 49	69 55	66 55	62 46	61.8 44.4		
HALEAKALA SUMMIT 338.4	MAX MIN	57 43	56 42	57 42	54 38	50 40	53 40	52 39	59 38	54 40	53 36	50 34	50 38	51 40	52 38	52 37	48 35	47 38	48 41	55 40	55 39	54 40	55 37	51 37	49 34	55 44	51 42	49 38	55 44	55 38	45 36	52.5 39.0		
HANA AIRPORT 355	MAX MIN	82 65	82 63	81 69	82 60	84 60	82 67	79 66	81 65	81 62	78 66	81 69	81 69	82 66	81 63	82 63	81 65	79 62	79 62	80 65	81 59	81 60	80 62	80 62	76 63	77 65	81 70	79 65	80 63	77 63	80 66	80.4 63.8		
KAANAPALI AIRPORT	MAX MIN	82 65	81 68	82 65	83 65	82 62	82 67	85 68	83 67	81 70	80 66	79 69	80 69	80 66	82 65	82 65	82 68	81 65	80 65	80 65	80 67	80 67	80 67	80 67	80 67	79 65	80 66	81 63	81 61	80 66	80 66	81.1 66.6		
KAHULUI WSO 398 AP	MAX MIN	87 63	87 65	87 63	87 62	88 60	90 63	86 66	84 69	86 68	84 68	86 68	86 68	85 68	86 61	86 62	87 62	85 71	84 72	83 71	84 68	83 68	84 69	79 69	84 70	81 66	87 66	86 66	85 60	86 60	86 62	85.1 65.9		
KAILUA 446	MAX MIN	79 63	76 66	76 66	77 64	78 65	79 65	79 65	79 65	79 65	78 65	79 65	76 65	74 65	76 65	75 66	75 66	74 67	76 67	75 67	74 64	75 64	73 63	73 63	73 63	73 63	74 67	75 67	74 66	74 65	75 66	75.9 65.2		
KEAWAKAPU BEACH 260.2	MAX MIN	89 62	87 63	89 63	85 64	87 63	85 64	88 65	89 64	87 61	87 63	88 63	89 65	89 60	86 63	85 63	86 64	87 65	89 65	88 61	87 60	85 60	86 60	86 59	88									

HAWAII
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1971

EVAPORATION AND WIND

See Reference Notes Following Station Index

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INDEX										HAWAII NOVEMBER 1971	
STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	OBSERVATION TIME AND TABLES			OBSERVER	
							TEMP	PRECIP	EVAP	SPECIAL NOTES	
ISLAND OF MOLOKAI											
WAIKOLU 540 ISLAND OF LANAI	A 9406	01	MOLOKAI	1	21 08	156 55	3550				MOLOKAI BRANCH
ISLAND OF LANAI											
KANEPUU 490	A 3130	01	LANAIHA	1	20 52	157 00	1650				LANAI COMPANY
KUALAPALAP HARBOR 658	A 3460	01	LANAIHA	1	20 47	157 00	30	8A			OLE COMPANY
LANAI CITY 872	A 3280	01	LANAIHA	1	20 56	156 55	1850	7A			LANAI COMPANY
LANAIHALE 684	A 3301	01	LANAIHA	1	20 49	156 53	3370				LANAI COMPANY
LANAI 684	A 3704	01	LANAIHA	1	20 52	156 55	1430				LANAI COMPANY
MALUA 676	A 3013	01	LANAIHA	1	20 53	157 00	2150				OLE COMPANY
MAIHEKAUA 685 ISLAND OF MAUI	A 9021	01	LANAIHA	1	20 47	156 52	2040				OLE COMPANY
ISLAND OF MAUI											
AUWAI-252	A 0175	02	HANA	2	20 37	156 20	2040				ULUPALUKA RANCH
FIELD 474	A 2943	04	LANAIHA	4	20 51	156 53	1050				ULUPALUKA RANCH
HAELEUA 77	A 0700	04	LANAIHA	4	20 57	156 36	2900				S MAUI LAND-PINEAPPLE CO
HAELEKAALA B E S 434	A 0995	01	MAKAWA	1	20 51	156 36	2180	7A			STATE DIV OF FORESTRY
HAELEKAALA 434	A 0999	01	MAKAWA	1	20 50	156 39	1850				STATE DIV OF FORESTRY
HAELEKAALA R S 338	A 1004	02	MAKAWA	2	20 46	156 19	7030	8A			MAUI LAND-PINEAPPLE CO
HAELEKAALA SUMMIT 338-4	A 1008	02	MAKAWA	2	20 43	156 16	9950	8A			MAUI LAND-PINEAPPLE CO
HAILIIMALE 423	A 1077	01	MAKAWA	1	20 52	156 21	1770				MAUI LAND-PINEAPPLE CO
HAKAPUKUPONO 485	A 1081	01	MAKAWA	1	20 59	156 21	320	5A			HAWAIIAN CON C SUG CO
HANA 354	A 1122	01	HANA	1	20 45	155 59	120	8A			HARRY HASEGAWA
HANA AIRPORT 355	A 1125	01	HANA	1	20 48	156 01	41	11A	11A		HAWAIIAN AIRLINES
HANALULU 261	A 1145	01	HANA	1	20 51	156 01	335				MAUI LAND-PINEAPPLE CO
HOLLOA CABIN 259.5	A 1552	02	MAKAWA	2	20 45	156 13	6930				MAUI LAND-PINEAPPLE CO
HONOHU 480	A 1882	04	LANAIHA	4	20 58	156 36	870				MAUI LAND-PINEAPPLE CO
HONOHU 493	A 1887	04	LANAIHA	4	20 51	156 39	135				MAUI LAND-PINEAPPLE CO
HONOHU FLO 49 494	A 1914	04	LANAIHA	4	21 01	156 38	125				MAUI LAND-PINEAPPLE CO
HONOHU GULCH 341	A 1935	01	MAKAWA	1	20 47	156 14	6250				MAUI LAND-PINEAPPLE CO
IND NEEDLE 387.2	A 2208	02	MAKAWA	2	20 53	156 14	6250				MAUI LAND-PINEAPPLE CO
KANAPALI AIRPORT	A 2307	04	LANAIHA	4	20 56	156 42	8	8A			AMPAC PROPERTIES
KANAKULU MAUK 482.3	A 2453	03	WAILUKU	3	20 59	156 33	655				EDWARD CHANG
ISLAND OF MAUI											
KAHOMA INTAKE 374	A 2552	04	LANAIHA	4	20 54	156 38	2000				PIONEER MILK CO LTD
KALAE 378 38 49	A 2577	02	WAILUKU	2	20 52	156 37	1850				PIONEER MILK CO LTD
KAILIILL 435	A 2630	01	MAKAWA	1	20 51	156 16	2520				E MAUI IPR CO LTD
KALAE 435	A 2679	01	MAKAWA	1	20 54	156 13	700	7A			E MAUI IPR CO LTD
KALAE INTAKE 375	A 2693	04	LANAIHA	4	20 56	156 38	1250				MAUI LAND-PINEAPPLE CO
KAUPUKULUA RES. 492.6	A 3561	02	MAKAWA	2	20 55	156 18	640				EAST MAUI IRRIGATION CO
KEANANI HOUSE 259.2	A 3571	02	MAKAWA	2	20 58	156 08	600				MAUI LAND-PINEAPPLE CO
KANAE 410	A 3910	03	MAKAWA	3	20 52	156 23	80	5A			HAWAIIAN CON C SUG CO
KEANAE 340	A 4091	01	HANA	1	20 50	156 10	980				E MAUI IPR CO LTD
KEANAE BEACH 260.2	A 4093	02	MAKAWA	2	20 43	156 27	35	8A			S. L. CORELL
ISLAND OF MAUI											
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
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KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
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KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27	90				MAUI LAND-PINEAPPLE CO
KIHEI 351	A 4489	03	WAILUKU	3	20 47	156 27					

STATION INDEX

HAWAII
NOVEMBER 1971

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER
								TEMP.	PRECIP.	EVAP.	
ISLAND OF HAWAII											
WISOLE PEN 147.1	A 8270	01 N KONA		1 20 00	155 50	1280		VAR			KAHUA RANCH
WAIKUA 18	A 8407	03 KAU		3 19 11	155 30	600					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	8552	02 PUNA		2 19 33	155 07	1530	8A				PUNA SUGAR CO
NAALEHU 14	A 8588	02 KAU		3 19 04	155 35	670	8A				HUTCHINSON SUGAR CO
NAPOOPOO 28	A 8687	04 S KONA		4 19 28	155 55	395	7A				KONA EXPERIMENT STA
NIHULI 179	A 8808	01 N KONA		1 20 14	155 45	75	9A				KONA SUGAR CO
OKALA 229	7131	02 KAU		2 20 01	155 17	430	7A				LAUPANOHOU SUGAR CO
OPINIHOLE 2 24-1	7188	04 S KONA		4 19 16	155 53	1270	7A				MISS C LEONARD
ORCHID LANE EST 91.9	A 7187	02 PUNA		2 19 34	155 00	445	VAR				DOARO OF WATER SUPPLY
PAUHAU 217	7204	01 HAWAII		1 20 03	155 26	415	7A				PAUHAU SUGAR CO
PAUHAU 221	7312	01 HAWAII		1 20 03	155 22	800	7A				HAWAIIAN HILL CO
PAUHAU 21	A 7421	03 KAU		3 19 12	155 29	870	8A				HAWAIIAN AGR CO
PANOA 65	7457	02 PUNA		2 19 30	154 57	670	8A				PUNA SUGAR COMPANY
PAKAI 37	A 7643	03 KAU		3 19 22	155 28	5000					HAWAIIAN RANCH CO, INC.
PAKAI 37	7711	02 S HILO		2 19 47	155 06	200	7A				MAUNA KEA SUGAR CO
PAKAI 37	7721	02 S HILO		2 19 47	155 08	1270	7A				MAUNA KEA SUGAR CO
PAKAI 37	8000	02 S HILO		2 19 51	155 03	100	7A				PERFECTED SUGAR CO
PAKAI 37	A 8051	02 S HILO		2 19 44	155 10	1730	VAR				STATE DIV OF FORESTRY
PAKAI 37	A 8053	02 HAWAII		2 19 45	155 30	6511	8A				STATE DIVISION OF PARKS
PAKAI 37	A 8186	03 KONA		3 19 59	155 50	5	5				ERWIN H. RAPP
PAKAI 37	A 8395	01 HAWAII		1 19 54	155 24	7750					KUKAIAU RANCH CO
PAKAI 37	A 8452	05 HAWAII		5 19 50	155 36	7440					STATE DIV OF FISH-GAME
PAKAI 37	A 8450	04 N KONA		4 19 34	155 49	4680					W.M. GREENWELL RANCH
PAKAI 37	A 8515	01 HAWAII		1 19 55	155 26	6900					KUKAIAU RANCH CO
PAKAI 37	8550	02 S HILO		2 19 44	155 23	6340	8A				MISS JACKIE BENLEHR
PAKAI 37	A 8555	05 N KONA		3 19 47	155 51	2520	7A				BILLINGHAM RANCH INC
PAKAI 37	A 8590	02 S HILO		2 19 42	155 12	2340	7A				DOARO OF MTR SUPPLY
PAKAI 37	A 8675	03 KAU		3 18 57	155 41	400					HAWAIIAN RANCH COMPANY
PAKAI 37	8785	01 HAWAII		1 19 53	155 23	3420	7A				KUKAIAU RANCH CO
PAKAI 37	8830	01 N KONA		1 20 15	155 53	61	8A				U S COAST GUARD

1 DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN 4-WESTERN 5-CENTRAL
 OAHU: 1-WINDWARD KOOLAUA 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
 MAUI: 1-NORTH-CENTRAL 2-NORTH-EAST 3-SOUTH-CENTRAL 4-WESTERN 5-CENTRAL
 LANAI: 1-(NO INTRA-ISLAND DIVISIONS)
 KAUAI: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "MONTHLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in "F.", precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: For all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.

No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates.

++ Highest observed one minute wind speed. This station is not equipped with an instrument to measure fastest mile data.

Amount included in following measurement; time distribution unknown.

A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly; usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substation through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Resistance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
 Director, National Climatic Center

USCOM-NOAA-ASREVILLE, N.C. 3/6/72-890

U.S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

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CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

DECEMBER 1971

Volume 67 No. 12

APR 27 1972

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature											Precipitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 143

Continued

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
DECEMBER 1971

Continued

DECEMBER 1971

Station		Temperature											Precipitation															
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
											Max.		Min.						Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											30° or Above	32° or Below	31° or Below	0° or Below														
KEAAU 92		75.7	62.6	69.2	- 1.8	79	18+	59	23+		0	0	0	0	32.56	16.39	7.30	19	.0	0		27	14	6				
KFALAKEKUA 26.2		75.9	60.7	68.3		79	19+	57	23		0	0	0	0	2.30		.43	21	.0	0		9	0	0				
KONA (KAILUA) 68.3	A					86	20	62	17		0	0	0	0	.42		.23	16	.0	0		1	0	0				
KUKUIHAELE HIC 199															4.21	- 5.01	1.10	30	.0	0		6	4	1				
KULANI CAMP 79		57.5	44.7	51.1		66	6	40	22		0	0	0	0	17.24		2.50	15	.0	0		24	12	5				
PAHALA 21	A					82	13	55	22		0	0	0	0	6.43	2.00			.0	0								
POHAKULOA 107	A														.51				.0	0								
PUNAO 95.1	A	81.6	65.9	73.8		85	4	61	17		0	0	0	0	T		T	26+	.0	0		0	0	0				
PUNO WAAHAA 94.1	A														1.27	- .43	.49	27	.0	0		0	0	0				
UMIKOA 118															4.46	- 7.03	1.01	15	.0	0				1				
WATAKEA SCO 88.2															38.26		6.30	14	.0	0		26	20	12				
ISLAND				65.9											10.75				.0									

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 91° ON THE 19TH AT LAHAINA 361, MAUI

LOWEST TEMPERATURE: 24° ON THE 31ST AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 46.77 INCHES AT KIPA 89.2 HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 11 STATIONS

GREATEST ONE-DAY PRECIPITATION: 9.83 INCHES ON THE 19TH AT PAPAIKOU MAUKA 140.1, HAWAII

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

December continued what had thus far been a quiet winter, free from major storms. However, the month was marked by tragedy, when two lives were lost in a rain-swollen stream on Oahu. But while Oahu and, to a greater extent, Kauai were subjects to occasionally heavy rains, the islands to the south remained in the grip of an unrelenting dry spell which in some areas had already exceeded a year in length.

For much of the month, the Central Pacific was dominated by large areas of high pressure, which helped deflect to the north the cold fronts and migratory cyclones ordinarily responsible for most of Hawaii's heavier winter rains. However, this pattern and the trade winds associated with it were frequently interrupted by periods of rain and of light or southerly winds.

A brief chronological review of the month's more important weather events follows:

1. December 6. Scattered thunderstorms and rain occurred on Kauai and over the Ka'u (southeastern) slopes of Hawaii Island from moist unstable air and southeasterly winds accompanying a low pressure area about 500 miles west-northwest of Kauai.

2. December 10-12. Trade winds gusting to 46 m.p.h. stirred up the dust and numerous complaints in Maui's central valley and in the Puako area of Hawaii Island. On the 11th, the wind knocked down telephone lines in Kohala, disrupting service for about 4 hours.

Also on December 11, the Danish freighter, Heering Kirse, went down near Midway Island after a week of battling seas of up to 30 feet. Thirty-one of 36 persons aboard were rescued.

3. December 13. Low pressure aloft, overtrade winds lower in the atmosphere, gave Hawaii Island's Hilo and Puna areas heavy rains and thunderstorms. Hilo Airport reported a waterspout 1/2 mile offshore. A 6-inch snowfall, wind-blown into 3-foot drifts, made the road to Mauna Kea Observatory almost impassable, and blanketed that mountain and Mauna Loa to an elevation of 10,000 feet.

4. December 16-18. Strong southerly winds, associated with a low pressure area as it moved from about 500 miles north to 750 miles northwest of Honolulu, brought heavy, but localized, rain and scattered thunderstorms to Kauai and Oahu, and on the 18th, to the Hilo area of Hawaii Island. Following intense rains (2-day storm totals in the area reached 8 to 10 inches) Kauai's Wailua River overflowed for about an hour on the afternoon of the 18th, inundating the Coco Palms

Hotel parking lot to a depth of about 3 feet and entering a home. In southern and southwestern Kauai, where rainfall totalled 5 to 9 inches, floodwaters and mudslides damaged roads at Kaumakani and in Lawai Valley. In the Kalaheo area alone, repairs to Kamualii Highway amounted to \$15,000.

At about the same time (at 2 p.m. on the 18th) a waterspout came ashore at Kaumakani and became a minor tornado that moved north-northeastward through Olokele Sugar Company fields, accompanied by a thunderstorm and heavy rain. Damage to cane and irrigation flumes was negligible. About an hour later, another funnel cloud was observed 2 miles east of Lihue Airport, while at Kealia, at 3:30 p.m., hailstones "the size of marbles," and others described as cigar-shaped and "up to 1/2 inch in diameter and 2 inches long," an extraordinarily large size for Hawaii, were reported to have occurred.

5. From about December 21 to the end of the month, freighters and barges caught in storms between Hawaii and the West Coast limped into Honolulu harbor with cargos damaged and losses of as high as 80 percent. One barge captain reported encountering 80- to 90-foot swell and 75 m.p.h. winds.

6. Between 1 and 2 p.m. on December 31, a group of people attempting to cross Kaluanui Stream just below Sacred Falls' pool on windward Oahu was swept downstream when the water, already rain-swollen to the height of a "man's shoulder," surged higher and the guide rope broke. A young girl and a woman who attempted to rescue her were drowned. A man suffered two broken toes and a boy bruises and contusions. The rain responsible for the flooding appears to have occurred from an isolated cloud tower. A rain gage 2 miles north of the site recorded only 1.35 inches between 8 and 9 a.m. (.60 inch within a very few minutes) and .39 inch between 1:30 and 2:30 p.m. No other rain of consequence was measured in the area.

Earlier that day, another waterspout came ashore at Kaumakani, Kauai, about 1/2 mile west of that of December 18, and moved northeastward through Olokele Sugar Company fields, but did little damage. These two waterspout-tornados occurred in the same area severely battered by a tornado in December 1967.

7. Small craft warnings were put into effect on four occasions - three times for gusty trades, once for strong southerly winds - for a total of 9 days during the month.

The occasional outbreaks of heavy rain over

SPECIAL WEATHER SUMMARY - Continued

Kauai, Oahu, and southeastern Hawaii Island, had left the central islands and even large portions of Hawaii Island dry. By month's end, pastures on leeward and lowland Molokai, and on Maui's Kula slopes and in western Maui were browning in places and badly deteriorated. Water was being hauled and supplemental feed used to counter the adverse effects on cattle in those areas.

On Kauai, rainfall was deficient only in the north-western section.

Oahu had as many gages with below their December rainfall average as above, and a scattering had less than half their monthly means.

The mountain watershed of windward East Maui, whose drought the Maui County Council had declared officially over in October 1971, again recorded well under its average monthly rainfall. Elsewhere, Maui's December rainfall ranged from below half its average for the month to less than 10 percent in the central valley and Kula. The Wailuku area recorded its eleventh successive month of below-normal rainfall, with amounts less than half the monthly mean in nine of those months. A number of gages on Maui read zero for the month - several of them, as the table below

shows, for the first time in long periods of record.

Molokai and Lanai were dry everywhere. Molokai's central valley - including the Kalae area, which until mid-October had been hauling in water to relieve its drought - had less than one-tenth of its mean December rainfall. No reporting gage on Lanai showed as much as 40 percent of its normal rainfall, and Lanai City had its eleventh successive month of deficient rainfall.

On the Big Island, most gages in the Ka'u (southeastern) District reached at least their average rainfall for the month, and in the Puna and Hilo areas, a number had two and occasionally three times their December means. In contrast, Kohala and Hamakua continued dry, with some lower-elevation gages on the western slopes of the Kohala Mountains reading zero. Kona was also dry at lower and higher elevations and about average in between.

As the table below shows, a number of long-record stations on Maui and Molokai had less rain in December 1971 than in any previous December.

Stations with Less Rain in December 1971
than in Any Previous December

(25 years of record or more, only)

Station	Length of Record (Yrs.)	Previous Least December Total	December 1971
MAUI			
Keahua	47	0.30 Inches	0.14
Nakalele	34	1.27	0.79
Puunene	51	0.25	0.10
Spreckelsville	69	0.51	0.42
Ukuhamehame	43	0.02	0.00
Wahikuli	51	0.23	0.00
MOLOKAI			
Kalaupapa	33	1.40	0.35

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DAILY PRECIPITATION

HAWAII
DECEMBER 1971

Station	Totals	Day of Month																																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
ISLAND OF KAUAI																																					
IANALUA 114	A	12.54																																			
BAKESIDE STATION 985	A	9.87	.04	.06	.12	*		.16	.02	.38	T	.13	*		.49	.92	.64	.54	.24	*		10.83															
EAST LANE 934	A	11.20	.31	.32	.04	.02	.43	.02	.55	.01					.30	.27	.50	.61	.34	*		4.44	.07														
SELENE 927	A	7.65	.16					.10	.04	.17	T	.02	*		.11	.42	.11	.06	.25	*		5.44	.02	.03	.08	*											
HALEKUA 1110	A	12.56		.18	.11	*		.04		.70					.18	.24	.24	.46	.25	*		9.50			.10					.30	.20	.06	*				
HALENAH 1006	A	10.96		.13	.15	*		.19	.03	.09	.05	.26	*		.30	.22	.43	.78	.09	*		6.94	.13	.01	.10	.14					.45	.12	.37	*			
HALENAH 945	A	6.62						.09	.36						.48	.30	.10	.90	.06	*		3.66	.02			1.50					.10						
LIILILUA & INTAKE 1005	A	20.38	.14	.41	.20	*		.21	.11	.28	.35	.39	*		1.28	.72	1.67	1.39	.56	*		9.07	.09	.16	.40	*				1.40	.74	.81	*				
INTAKE & INTAKE PC 1086	A	12.01						.21	.18	*	.45	*			1.26	*		3.21	*			2.90	1.92	*						.88		1.20	*				
KANALOHU LULU 1075	A	6.68		.03	.02			.02	.16	.03	.02	.03	.03		.42	.34	.15	.08	.75	.83		2.96	.15	.02	.04	.19	.19			.25	.05	.12	.05	.13	*		
KANEMA RESERVOIR 1092	A	16.74	.11	.28	.17	*		.20	1.60	.05	.05	*			.68	.30	.10	.90	.06	*		10.55	.18	.05	.30	*				.70	.33	.13	*	*			
KAPAS STABLES 1104	A	12.83		.14	.02	*		.23	.51	.12	.07	.02	*		.15	.12	.31	.51	.04	*		5.77	.02	.02	.03	*				.15	.20	.08	*	*			
KAHUA 1112	A	11.52		.08	.05	*		.04	.20	.12					.12	.09	.15	.38	.26	*		6.53	.04	.14	.05	*				.23	.10	.05	*	*			
KAHUA 944	A	6.30	.03					.12	.08						.03	.02		.33	.48			4.48	.01		.12	.55	.03			.02				*			
KILAUEA 1134	A	9.17	.02	.21	.06	*		.37	.15	.36	.07	.02	*		.15	.18	.15	.03	.18	*		6.35	.03	.10	.06	*				.26	.24	.13	.05	*			
KILAUEA FIELD 17 1135	A	11.62	.15	.26	.17	*		.68	.08	.53	.04	.07	*		.21	.19	.55	.04	.14	*		7.10	.05	.10	.08	*				.23	.45	.32	.18	*			
KILAUEA POINT 1133	A	11.86	.24	.16	.24	*		.24	.20	.64		.25	*		.50	.12	.15	.20	.25	3.00		3.80	.12	.10					.51	.24	.15	.04	.30	*			
KOLO 1033	A	4.01						.02	.14		.15				.14	.10	.28	.58	.24	*		10.79	2.73	.02						.06	.05			*			
KOLOA 936	A	8.79	.18	.18	*			.14							.27	.12	.41	.02	.23	*		4.05	.02	.23	*					.44	.16	.50	*	*			
KOLOA MAUKA 994	A	15.22	.05	.21	.19	*		.33	.02	.26	.05	.12	*		.50	.43	.62	1.06	.08	*		8.80	.12	.01	.45	.32	*			.95	.15	.50	*	*			
KILOKO RES 1137	A	12.51	.15	.29	.07	*		.30	.22	.35	.03	.04	*		.22	.18	.24	.04	.85	*		7.36	.05	.11	.11	*				.25	.48	.35	.82	*	*		
KILUUEA 934	A	8.46	.34	.08	*			.43	.08		.02	.10	*		.29	.04	.43	.90	.50	1.43		6.90	.19	.08						.17	.03	.15	.36	.10	.20	.32	*
LIHUE LIBERTY STA	A	13.27	.02	.24	.01	*		.02	.04	.08	.10	.06	.21	*		.20	.02	.10	.85	.40	*		4.30								.10	.12	.06	.05	.09	*	
LIHUE 1020	A	7.50	.10					.09	.01	.03	.01	.04	*		.11	.05	.27	.21	1.70	4.40		.30	T		.04	.01					.10	.01	.06	.05	.05	*	
LIHUE WSO 1020.1 AP	A/R	7.52		.02	.04	T		.01	.01	T	.01	.03	.03	.01		.11	.05	.27	.21	1.70	4.40	.30	T		.04	.01					.10	.01	.06	.05	.05	*	
MAKAHINEA POINT 940.1	A	5.94	.08	.04				.01	.38		.09		.03	.07		.02	.08	.06	.16	2.21		.42	1.80	.05	.05	.05	.16			.01	.02	.05	.05	.07	*		
MAKAHOLI 965	A	11.31	.01			.02	.12	.01	.05		.01		.03	.03		.12	.04	.01	.80	.63	6.58		.06	.01	.01	.24	.59	.01			.05	.04	.07	1.74	*		
MANA 1026	A	4.59						.05	.23							.16	.42	.31	2.84	.11										.19	.01			*			
MOHAI IPR CROSS 1083	A	11.52	.08					.16	.16	.08		.16	.16	*		.65	1.06	.57	1.07	2.23		.80	.18	.09	.18	.18				.18	.09	.27	.18	*	*		
MOLOKA 1145	A	11.00		.16	.05	*		.15	.02	.12					.10	.21	.19	.15	*			9.26	.06	.03						.18	.18	.14	*	*			
MOUNT MAHALEALE 1047	A	5.97						.04								.15	1.16	1.55	1.77	.51		4.00								.25				*			
NATU RIDGE 1035	A	22.89	.43	1.02	.19	*		.40	.74	.29	.22	.72	*		.28	.45	1.09	2.55	.50	2.70	5.45	.80	.05							.35	.25	.12	1.20	.63	.50	.60	*
NAMALUA NITCHE 1051	A	8.38		.12	T			.05	.02	.22	.16	.26	.22	*		.02	.86	.50	.73	.14	.25	1.92	2.05	.11	.05	.05	.02				.30	.06	.15	.12	*		
PRINCEVILLE RANCH 1117	A		.08	.29	.08	*		.20	.05	.66	.54	.17	*		.23	.26	.27	.05	.08	*		5.83	.03	.07	.05	*				.27	.32	.28	.18	*	*		
PUEHU RIDGE 1040	A	6.76						.12	.18													1.2	1.05	1.04	2.97					.20	.92			.16	*		
PUMI 1013	A	10.35		.05	.12	*		.26	.15	.30	.07	.06	*		.30	.10	.16	1.10	.18	*		6.52	.04	.02	.06	.31	*				.30	.11	.14	*	*		
RESERVOIR 6 1004	A	12.41	.04	.09	.04	*		.24	.18	.06		.10	*		.43	.23	.37	1.27	.60	*		6.87	.11	.01	.12	.40	*				.75	.20	.30	*	*		
WAIHANA 930	A	7.78	.10	.12	T			.08	.02	.13	T	.04	*		.09	.20	.24	.12	.22	.04	*	5.66	.04								.42	.09	.15	*	*		
WAIHANA MOUNTAIN 990	A	27.50						.08	.02	.13	T	.04	*		.09	.20	.24	.12	.22	.04	*	5.66	.04												.27	.50	*
WAIHAI LOWER 1054	A	19.50	.13	.26	.12	.02	.05	.38	.78	.54	.16	.15	.20	.11		.28	.28	.89	1.84	.04	1.57	6.87	1.05	.13	.22	.05	.29			.11	.34	.10	.98	.36	.57	.60	*
WAIHAI UPPER 1052	A	19.45	.12	.30	.30	.05	.05	.08	.23	.02					.28	.45	1.09	2.55	.50	2.70	5.45	.80	.05							.35	.25	.12	1.20	.63	.50	.60	*
WAIHAI 943	A	6.09						.14	.23	.02					.02	.01	1.00	.28	3.70	.01										.01	.02					*	
WAIHAI KAI 1065	A	9.49		.06	.09			.06	.06		.04	*			.19	.02	.15	.15	.18	*		7.74	.02	.02						.15	.25	.39	*	*			
WAIHAI 947	A	7.24						.08	.15						.06	.04	.35	.45	4.47	.10											.07				*		
WEST LAWA 931	A	8.34	.12	.09	T	*		.24	.01	.30		.03	*		.17	.15	.27	.43	.55	*		5.25	.04	.02	.08	*				.29	.09	.25	*	*			
ISLAND OF OAHU																																					
BERETANIA PUMPING STA	A	2.19	.02	.01	T				.01			.01	.02	.01	T	.27	.29		.07	.58	.10	.50	.12						.01					.12	*		
CAMPBELL 1NO PK 702.5	A	.74							.15							.24	.20	*				.20	T													*	
CAMP #4 807	A	6.84		.08					.20							.15	.04	*				.70	.15	*						.03						*	
CHURCH COLLEGE LAIE	A	6.84		.02	.02			.07	.02	.09	.03					.09	.15	.10	2.05	.62	1.82	.25	.02	.04						.03	.16	.21	.04	1.00	*		
COCOON ISLAND 840.1	A			.02				.01	.03						.01	.14	.04	.15	.27	1.25	*	.60									.08				.07	*	
EWA PLANTATION 741	A	2.32							.02							.01			.04	1.14	.64	.61	.06														

HAWAII
DECEMBER 1971

[illegible]

See reference notes following Station Index

HAWAII
DECEMBER 1971

HAWAII
DECEMBER 1971

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation								Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN				Trace									
							02	08	14	20										
												.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
HILO WSO 87	19	2.8	6.4	21	SE	17	92	91	77	91	0	4	12	7	3	5	31	21	8.1	
HONOLULU WSO 703	7	11.3	14.0	33	NE	13	79	78	59	74	9	8	2	1	1	0	21	65	6.4	
KAHULUI WSO 398	6	9.0	11.5	36	E	09	83	81	54	78	7	6	0	0	0	0	13	76	4.3	
LIHUE WSO 1020.1	8	9.4	11.8	27	E	13	79	78	69	77	5	15	5	0	1	1	27	23	7.4	

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DAILY TEMPERATURES

HAWAII
DECEMBER 1971

Station		Day of Month																																Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	69 49	68 56	67 59	68 48	68 52	69 57	67 50	68 50	67 59	64 54	63 52	62 53	65 52	65 54	62 54	65 48	61 47	62 54	66 57	60 53	60 50	63 48	61 51	62 51	63 45	64 45	62 49	61 50	59 51	63 49	63 43	64.1 51.3	
KILAUEA POINT 1133	MAX MIN	77 68	80 74	77 67	79 74	79 70	79 74	79 71	77 75	77 72	77 73	78 72	78 74	77 71	77 73	78 71	78 65	77 65	76 72	76 66	75 67	75 71	76 68	76 70		76 72	76 67	76 70	76 66	75 70	75 66	76 69	77.1 70.4	
LIHUE WSO 1020.1 AP	MAX MIN	81 75	81 73	80 71	80 74	82 72	82 73	81 71	81 74	80 75	79 71	80 70	81 72	80 71	80 73	78 70	78 65	76 64	75 64	78 69	78 70	78 69	77 71	79 68	79 67	78 67	77 66	77 67	78 69	75 68	77 69	78 65	78.9 70.0	
MAKAHUEA POINT 940.1	MAX MIN	82 68	84 70	75 70	82 74	82 70	84 70	84 70	83 72	82 72	83 71	83 69	75 68	85 70	80 69		80 69	80 64	70 68	76 64	75 70	80 68	78 69	79 68	78 67	82 67	81 69	79 68	75 65	78 66	74 67	76 65	79.5 68.6	
MANA 1026	MAX MIN	86 64	85 65	86 64	85 61	85 64	83 67	85 63	86 60	85 65	86 61	85 59	84 63	83 59	86 63	86 61	85 62	84 63	84 62	84 67	80 60	84 61	80 59	81 60	80 66	81 65	81 61	81 61	81 60	81 63	80 59	81 59	83.3 62.6	
NIIH RIGGE 1035	MAX MIN	80 63	80 64	61 62	80 63	81 63	82 64	79 63	80 63	80 64	81 65	82 63	80 64	80 63	81 63	79 60	79 58	79 58	79 58	80 60	80 59	81 60	79 60	79 58	78 63	80 63	80 62	79 58	77 57	77 59	72 59	74 58	79.4 61.2	
WAIAMI LOWER 1054	MAX MIN	74 67	74 67	74 64	75 64	75 63	77 66	76 62	73 67	74 67	71 64	71 64	74 64	74 63	72 66	70 64	73 63	73 59	74 59	70 63	69 63	70 60	71 58	70 62	70 59	73 60	74 59	70 63	70 61	70 63	71 62	72 59	72.4 62.7	
* * *																																		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	83 64	81 66	81 64			82 62	82 62	82 64	82 67	81 68			80 65	80 66	80 65	78 60	79 60			83 63	77 60	77 57	77 59	78 55				82 59	78 63	74 62			
HONOLULU WSO 703 AP	MAX MIN	82 70	82 70	81 70	80 65	80 67	82 69	83 66	82 70	83 70	80 69	80 70	81 70	82 70	80 70	80 68	78 66	78 66	80 68	75 70	75 66	75 66	77 64	77 63	77 60	79 64	80 66	80 67	79 67	76 68	79 67	78 61	79.4 67.2	
HONOLULU SUBSTA 704	MAX MIN	79 73	78 71	81 72	80 69	80 70	81 71	79 70	80 72	80 70	78 68	76 68	78 69	79 68	77 68	77 68	83 70	78 68	83 70	74 71	75 66	74 67	75 69	78 67	77 65	75 68	76 67	76 68	74 70	75 65	76 65	77.5 69.1		
KAHUKU 912	MAX MIN																																82 60	
KANEHUE MAUKA 781	MAX MIN	80 70	79 72	77 72	80 68	82 65	81 66	78 72	78 71	78 72	78 71	77 71	78 71	77 69	77 69	76 69	75 64	78 65	78 64	82 67	74 68	74 67	75 68	75 65	78 64	79 65	77 69	71 61	75 68	77 67	73 68	75 64	77.2 67.8	
LUALUALEI 804	MAX MIN	83 65	82 65	82 73	83 66	84 66	85 66	84 65	83 67	84 74	81 70	80 70	80 72	80 73	80 71	80 71	79 66	80 65	84 71	78 70	84 67	77 67	77 67	82 64	82 70	79 62	82 64	80 67	77 65	78 68	75 67	78 60	80.6 67.6	
MAKAPUU POINT 724	MAX MIN	76 69	78 68	78 67	75 69	80 69	81 69	79 65	78 71	80 70	78 66	74 67	74 69	74 63	74 67	78 65	77 69	78 66	78 69	82 69	73 69	72 66	73 63	77 68	74 64	76 66	73 65	73 68	72 65	73 64	72 67	75.7 67.5		
OPAELUA 870	MAX MIN	82 61	75 61	72 61	75 61	72 60	82 60	80 60	80 63	76 63	75 60	80 61	80 62	75 61	75 60	75 61	75 57	80 60	81 62	71 67	78 61	68 61	74 60	77 63	79 59	77 61	76 63	72 64	73 63	71 65	73 63	76 61	75.8 61.4	
PRI WAIHANA 820.2	MAX MIN	81 62	80 65	79 65	80 62	83 62	84 61	84 62	79 63	80 66	80 65	73 66	76 66	78 65	77 65	82 65	76 61	80 59	82 62	71 68	84 62	74 60	75 61	76 60	76 56	75 57	75 58	79 60	78 60	75 63	72 57	74 57	77.9 62.0	
WAIALEE 896.3	MAX MIN	79 70	79 68	79 65	79 66	81 62	82 69	79 70	80 70	79 70	78 66	77 67	77 67	78 69	78 64	77 67	75 65	77 64	78 65	82 69	75 69	73 66	77 63	77 68	74 64	76 66	73 65	73 68	72 65	73 64	76 63	77.3 67.3		
WAIALUA 847	MAX MIN	85 63	83 66	82 63	85 62	85 62	85 62	83 62	83 65	85 67	82 65	76 64	77 64	78 61	80 63	80 62	78 58	79 60	69 60	83 65	73 68	76 59	78 55	79 56	79 58	79 56	78 58	78 59	78 58	75 59	76 61	76 61	79.5 61.4	
WAIKIKI 717.2	MAX MIN	83 67	83 71	83 71	83 65	84 68	85 69	84 69	84 68	83 68	79 69	81 70	81 70	81 71	81 69	80 67	81 65	81 65	79 67	84 70	77 65	77 65	80 60	79 63	80 60	80 59	80 64	81 67	81 67	82 67	80 65	81.2 67.0		
WAIMANALO EXP FARM	MAX MIN	80 72	80 71	80 72	80 66	81 64	83 72	82 72	82 69	60 67	82 67	79 68	79 68	78 72	77 74	78 72	78 68	76 67	76 64	78 72	75 70	75 68	76 69	76 70	79 61	80 62	78 65	78 70	77 69	75 68	77 65	78.5 68.5		
* * *																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	82 70	78 70	78 67	82 64	84 68	80 70	84 64	83 64	82 70	80 70	76 68	75 69	76 69	79 70	79 68	77 65	80 66	79 68	81 70	75 69	74 66	74 66	75 63	77 64	75 62	78 65	76 65	77 68	74 65	76 61	76 61	78.2 66.8	
* * *																																		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	78 60	75 62	74 60			78 59	78 61	78 60	79 62	79 61			78 58	74 60	74 63	77 63	77 61			83 61	77 59	69 55	71 55				74 55	72 56	74 58	69 59			
* * *																																		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	61 45	61 41	61 47	66 45	63 48	67 44	64 42	64 46	71 49	63 47	60 43	57 43	56 41	56 45	54 44	56 38	57 37	59 39	61 44	59 46	59 39	55 34	54 35	57 37	53 36	50 34	58 44	61 46	64 47	58 42	57 36	59.4 42.1	
HALEAKALA SUMMIT 338.4	MAX MIN	46 37	48 37	52 38		52 39	52 37	51 39	52 38	55 35	50 37			49 28	42 28	45 37	43 34	45 28		49 36	46 32	46 33	50 36	56 38	56 39									
HANA AIRPORT 355	MAX MIN	78 62	80 64	76 63	80 65	80 63	80 63	80 66	78 69	78 64	79 60	79 60	79 65	79 65	78 62	79 60	78 59	80 65	77 66	75 62	77 60	77 63	78 60	76 60	77 65	77 62	78 62	77 64	77 62	78 61	77 64	78.1 62.5		
KAANAPALI AIRPORT	MAX MIN	81 64	79 65	81 64	81 63	82 60	80 63	82 65	79 65	80 69	81 64	79 65	79 65	79 63	79 67	80 69	78 62	80 67	78 67	70 69	76 62	76 60	76 64	78 63	77 60	78 62	77 63	78 63	79 61	75 62	78 62	79.1 63.9		
KAHULUI WSO 398 AP	MAX MIN	83 64	85 66	85 66	85 60	87 58	86 60	87 64	86 62	86 62	82 69	81 68	81 68	81 69	82 69	85 58	85 58	89 61	81 69	79 68	79 62	81 62	82 62	82 62	80 58	80 56	80 57	80 59	80 59	77 59	84 61	84 58	82.7 62.6	
KAILUA 446	MAX MIN	75 67	75 67	75 67	74 67	75 64	76 64	73 63	74 66	75 64	73 63	72 64	72 64	73 64	72 65	72 66	73 63	78 60	77 60	79 60	78 65	69 60	72 64	73 62	73 63	72 63	72 63	73 64	73 63	72 61	70 61	73.6 63.6		
KEAWAKAPU BEACH 260.2	MAX MIN	84 62																																

DAILY TEMPERATURES

HAWAII
DECEMBER 1971

Continued

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX MIN	72 57	71 57	71 56	73 55	72 54	73 55	72 56	73 57	75 58	74 54	73 53	73 53	72 54	73 55	71 55	71 51	72 52	76 58	78 62	72 55	68 50	67 51	71 52	70 55	68 54	69 50	70 51	68 52	69 53	65 55	71 53	71.5 54.3
LAHAINA 361	MAX MIN	85 65	85 67	84 64	85 64	85 63	86 66	85 64	85 67	85 64	87 65	85 66	87 66	66 64	87 66	87 63	85 62	82 63	84 66	91 70	86 63	84 62	82 60	81 62	83 65	83 67	83 60	83 60	82 60	82 64	77 64	82 63	84.3 63.8
WAILUKU 386	MAX MIN	82 71	78 70	80 69			83 62	80 65	80 66	84 67	79 69			66 66	69 68	78 68	77 66	79 61	78 68			84 62	75 63	75 64	76 63	82 62		89 52	86 55	85 55	84 54	87 52	80.8 63.1
* * *																																	
ISLAND OF HAWAII																																	
MAINA 214	MAX MIN	77 65	78 66	78 64	78 63	78 63	79 63	80 65	78 64	80 65	78 67	76 64	77 64	76 62	73 64	73 66	76 63	77 61	80 62	81 61	75 65	72 61	75 62	75 61	74 60	76 64	76 62	75 63	76 64	74 65	74 62	79 59	76.6 63.2
HAWAII VOLCNS NP HO 54	MAX MIN	68 52	68 55	65 51	62 48	63 48	68 53	66 55	65 54	64 50	60 50	63 50	62 50	60 52	59 52	62 54	61 59	65 61	66 59	63 49	64 52	60 57	60 52	58 46	61 48	61 49	59 48	61 49	60 49	58 49	58 49	61 49	62.5 50.4
WILD WSD 87 AP	MAX MIN	80 65	79 67	77 65	80 63	81 63	74 67	83 67	82 65	79 65	78 65	79 66	78 64	73 65	75 66	79 66	80 61	82 60	77 67	74 68	73 65	77 63	78 60	78 62	72 62	78 64	77 62	77 62	78 62	75 62	77 63	79 62	77.7 64.0
KAINALIU 73.2	MAX MIN	77 59	76 63	76 63	78 60	76 58	76 61	78 61	77 61	75 60	78 62	76 59	77 58	78 59	76 61	77 59	78 57	76 57	77 60	74 64	73 63	57 57	73 56	74 58	73 58	74 59	75 58	79 61	74 59	79 57	76.1 59.4		
KAMUELA 192.2	MAX MIN	76 53	70 58	69 52	74 50	76 47	77 45	78 48	74 53	78 50	74 55	68 52	69 54	68 55	69 56	68 56	72 57	76 44	76 46	64 49	67 52	64 50	66 52	66 42	66 44	72 47	67 53	70 54	67 50	65 53	75 44	70.9 50.8	
KEAAU 92	MAX MIN	78 64	79 65	77 65	76 61	77 61	79 63	74 65	79 66	79 64	76 64	77 63	77 63	76 64	73 63	77 63	77 61	79 62	79 66	75 66	71 60	74 59	77 59	75 60	75 61	75 61	75 61	75 61	76 63	76 61	73 62	74 65	75.7 62.6
KEALAKEKUA 26.2	MAX MIN	78 61	77 65	75 65	76 61	78 59	76 63	79 63	76 61	77 61	77 62	77 60	77 60	76 59	75 62	78 60	77 59	75 58	77 60	79 64	78 64	70 58	73 59	73 58	74 58	74 59	75 59	76 61	75 59	77 60	73 58	75 58	75.9 60.7
KOMALA MISSION 175.1	MAX MIN	78 66	77 66	77 65	74 63	79 62	79 63	78 64	78 64	75 65	76 67	76 67	75 64	75 65	75 65	76 65	76 64	81 65	76 60	70 62	70 62	73 60	74 60	79 60	76 62	75 64	74 64	76 65	74 65	72 62	76 60	75.8 63.7	
KUNA (KAILUA) 68.3	MAX MIN	84 67	82 68	84 69			84 68	83 68	82 68	82 68	84 69			82 68	82 68	82 68	82 67			86 66	79 65	82 65						81 63	81 64	80 65	80 65		
KULANI CAMP 79	MAX MIN	64 43	65 47	62 45	59 42	62 41	66 49	64 50	58 46	58 42	59 46	59 47	59 46	55 49	52 48	54 47	58 43	48 44	62 44	63 52	56 44	52 40	56 41	56 42	56 42	57 46	49 42	56 42	58 42	59 43	55 43	55 43	57.5 44.7
MAUNA LOA SLOPE OBS	MAX MIN	47 33	46 33	49 33	49 31	46 34	46 30	50 31	54 38	54 37	47 34	48 32	46 30	42 28	44 31	44 30	42 25	49 26	50 34	51 35	51 33	48 29	48 28	45 36	47 33	45 29	47 30	47 33	49 34	45 32	40 25	40 24	46.9 31.3
MOUNTAIN VIEW 91	MAX MIN	73 59	75 59	72 60	75 57	75 57	75 57	69 61	74 61	75 60	70 59	71 58	71 58	71 58	65 58	66 60	71 56	74 57	72 58	72 56	72 58	64 55	67 57	71 59	70 54	70 55	70 55	73 55	76 55	76 55	76 55	71.6 57.5	
NAALEHU 14	MAX MIN	77 65	78 65	76 67	76 67	78 66	78 66	76 65	76 65	76 67	74 66	74 66	76 65	76 65	75 66	75 66	76 64	76 64	76 64	76 64	76 64	76 64	76 64	76 64	76 64	76 64	76 64	76 64	76 64	76 64	76 64	76 64	76.4 64.4
OOKALA 223	MAX MIN	77 66	78 65	77 67	75 66	76 66	77 64	79 64	78 66	80 66	77 65	78 63	78 64	75 63	72 64	73 64	76 63	76 61	83 63	79 66	70 60	68 60	75 61	75 61	76 61	75 61	76 61	75 61	74 64	75 63	76 61	76 60	75.9 63.5
OPIHIKALE 2 24.1	MAX MIN	76 62	75 62	74 58	75 58	75 58	76 56	73 58	76 57	77 59	74 56	74 56	73 56	75 57	73 57	75 56	75 53	77 54	77 54	69 55	69 54	70 54	72 54	72 54	75 54	72 54	73 54	73 54	72 54	73 54	73 54	73.9 56.4	
PAMALA 21	MAX MIN	79 60	79 60	78 64			80 62	77 64	78 66	78 66	76 63			82 63	79 64	76 64	77 58			81 59	75 56	75 55	76 56	75 61				77 56	77 59	77 59	77 59		
PUAKO 95.1	MAX MIN	83 69	84 72	84 67	85 65	83 65	82 66	82 67	82 66	83 66	83 68	82 69	83 64	83 65	81 67	82 72	83 61	82 63	83 67	81 67	82 67	83 65	81 62	84 62	79 65	80 62	80 63	77 63	80 64	80 66	79 67	80 62	81.6 65.9
UPOLU POINT USCG 159.2	MAX MIN	82 68	79 69	80 66	78 68	82 67	82 67	82 69	80 67	82 68	79 67	78 67	77 56	78 65	77 67	77 67	80 60	85 64	84 68	77 67	75 63	76 62	77 63	82 69	82 69	82 70	82 69	82 69	82 69	74 68	78 67	79.5 66.5	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WSD 1020.1 AP	EVAP	.19	.22	.13	.10	.18	.17	.17	.19	.17	.26	.24	.24	.40	.19	.25	.17	-	.18	-	.14	.33	.27	.25	.16	.12	.15	.20	.16	.24	.17	.18	6.228
	WIND	116	178	184	94	70	87	84	106	170	298	309	284	253	311	294	213	82	83	92	227	275	251	176	80	69	132	230	258	247	226	170	564.9
	MAX	81	78	78	75	80	77	81	77	74	74	73	71	73	74	72	72	76	66	73	75	74	74	74	78	77	77	75	77	75	74	75.2	
	MIN	60	63	62	61	62	63	62	62	63	63	59	59	59	59	60	59	56	54	59	60	56	56	67	58	56	57	57	58	57	60	58	59.5
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.15	.18	.15	.15	.15	.14	.15	.16	.15	.22	.26	.24	.18	-	.21	.18	.16	.14	.15	-	.15	.19	.15	.09	.12	.13	.16	.16	.17	.11	.15	5.028
	WIND	20	24	23	23	21	19	19	23	28	59	56	54	49	57	39	30	19	57	10	10	31	30	23	12	20	14	32	34	39	25	24	92.4
	MAX	84	84	83	83	83	83	84	83	82	82	78	80	80	81	82	80	81	78	85	72	78	79	77	74	79	82	80	78	78	70	80	80.1
	MIN	63	65	62	62	62	63	64	64	65	62	60	61	61	62	62	60	61	63	66	62	59	59	58	57	57	59	59	59	59	61	59	61.2

PRECIPITATION MEASURED IN STORAGE GAGES

HAWAII
DECEMBER 1971

Station	Obser - vation date	Amount since last obs.	Snow on ground
ISLAND OF KAUAI			
HANALEI TUNNEL 1053			
	1971		
	JAN 31	21.20	
	FEB 28	4.00	
	MAR 31	4.40	
	APR 30	-	
	MAY 31	5.20	
	JUN 30	5.40	
	JUL 31	6.00	
	AUG 31	7.00	
	SEP 30	7.00	
	OCT 31	12.40	
	NOV 30	14.20	
	DEC 31	28.00	
TOTAL		-	
N WAILUA RIVER 1055			
	1971		
	JAN 31	15.00	
	FEB 28	6.80	
	APR 7	29.00	
	APR 30	13.80	
	MAY 31	3.20	
	JUN 30	4.80	
	JUL 31	4.80	
	AUG 31	5.40	
	SEP 30	7.20	
	OCT 31	8.40	
	NOV 30	11.80	
	DEC 31	18.40	
TOTAL		128.60	

Station	Obser - vation date	Amount since last obs.	Snow on ground
ISLAND OF MAUI			
HAELAAU 477			
	1971		
	JAN 30	19.00	
	FEB 28	2.00	
	MAR 29	9.00	
	MAY 1	18.00	
	MAY 29	6.00	
	JUL 3	1.00	
	JUL 31	20.00	
	AUG 28	.00	
	OCT 2	4.00	
	OCT 31	3.00	
	NOV 29	5.00	
	DEC 30	5.00	
TOTAL		92.00	
HONOLUA FLO 49 494			
	1971		
	JAN 31	13.75	
	MAR 1	1.09	
	MAR 31	4.33	
	APR 30	4.57	
	JUN 1	1.96	
	JUN 30	.41	
	JUL 31	.85	
	AUG 31	.76	
	SEP 30	2.23	
	OCT 29	2.08	
	NOV 30	1.93	
	1972		
	JAN 3	1.60	
TOTAL		35.56	

Station	Obser - vation date	Amount since last obs.	Snow on ground
ISLAND OF MAUI (CONTINUED)			
KUKUI 380			
	1971		
	JAN 30	50.00	
	FEB 28	8.00	
	MAR 29	29.25	
	MAY 1	63.00	
	MAY 29	30.00	
	JUL 3	4.20	
	JUL 31	20.00	
	AUG 28	7.60	
	OCT 2	22.00	
	OCT 31	12.00	
	NOV 29	25.00	
	DEC 30	18.00	
TOTAL		289.05	
MOKUPEA 475			
	1971		
	JAN 30	17.04	
	MAR 1	1.80	
	MAR 31	8.64	
	APR 30	8.68	
	JUN 1	3.19	
	JUN 30	1.48	
	JUL 31	1.31	
	AUG 31	.91	
	SEP 30	3.11	
	OCT 29	2.67	
	NOV 30	4.62	
	1972		
	JAN 3	3.47	
TOTAL		56.92	
PUU PAKI 352			
	1971		
	MAR 31	25.50	
	JUN 30	45.00	
	SEP 30	14.00	
	DEC 30	36.00	
TOTAL		120.50	
WAILUA IKI 348			
	1971		
	MAR 31	71.00	
	JUN 30	54.00	
	SEP 30	30.00	
	DEC 30	55.00	
TOTAL		210.00	

LATE REPORTS DAILY PRECIPITATION

HAWAII

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
• • •																																		
JUNE 1971																																		
CAMPBELL IND PK 702.5																	.20	1.21	.04															
KALAUPAPA 563		A	1.45														.80													.21	.03			
• • •																																		
OCTOBER 1971																																		
MOUNT WAIALEALE 1047		R	•	.43	.35	.39	.24		.47	.43	.20	.28	.31	.39	.67	.12	.20	.24	.04	.08	4.84	.79	1.61	1.61	.16	1.66	.71	1.42	4.09	.16	•	•	•	•

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
AUGUST 1971																																	
LIHUE WSO 1020.1 AP	EVAP	.41	.45	.30	.32	.27	.35	.29	.26	.27	.25	.37	.37	.37	-	.33	.45	.34	.29	.41	.41	.34	.39	.44	.37	.37	.31	.36	.33	.32	.40	.39	10.888
	WIND	179	205	204	178	95	92	85	70	69	74	113	177	168	145	124	153	168	242	233	188	160	214	214	186	168	188	118	91	110	179	182	4772
	MAX	86	84	82	84	84	87	86	84	85	88	89	86	85	85	88	85	86	82	84	84	85	84	84	83	85	86	85	87	87	87	86	85.3
	MIN	64	63	64	64	65	64	72	60	61	61	61	64	66	64	65	64	64	65	65	64	62	63	63	63	63	63	63	62	63	65	64	63.7

HAWAII
DECEMBER 1971

[illegible]

HAWAII
DECEMBER 197

↑ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-CENTRAL 4-WESTERN 5-CENTRAL

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII "

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
 No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
 - And also on an earlier date or dates.
 - Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
 - Amount included in following measurement, time distribution unknown.
 A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
 B Adjusted to a full month
 J "Supplemental Data" table.
 M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
 R Amounts from recording gage.
 T Trace, an amount too small to measure.
 V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- NR Observation made after rain.
- R In Special Column of Station index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly, usually on the last day.
- QC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- SS Observation time is near sunset.
- VR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- W3 Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

tailions appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

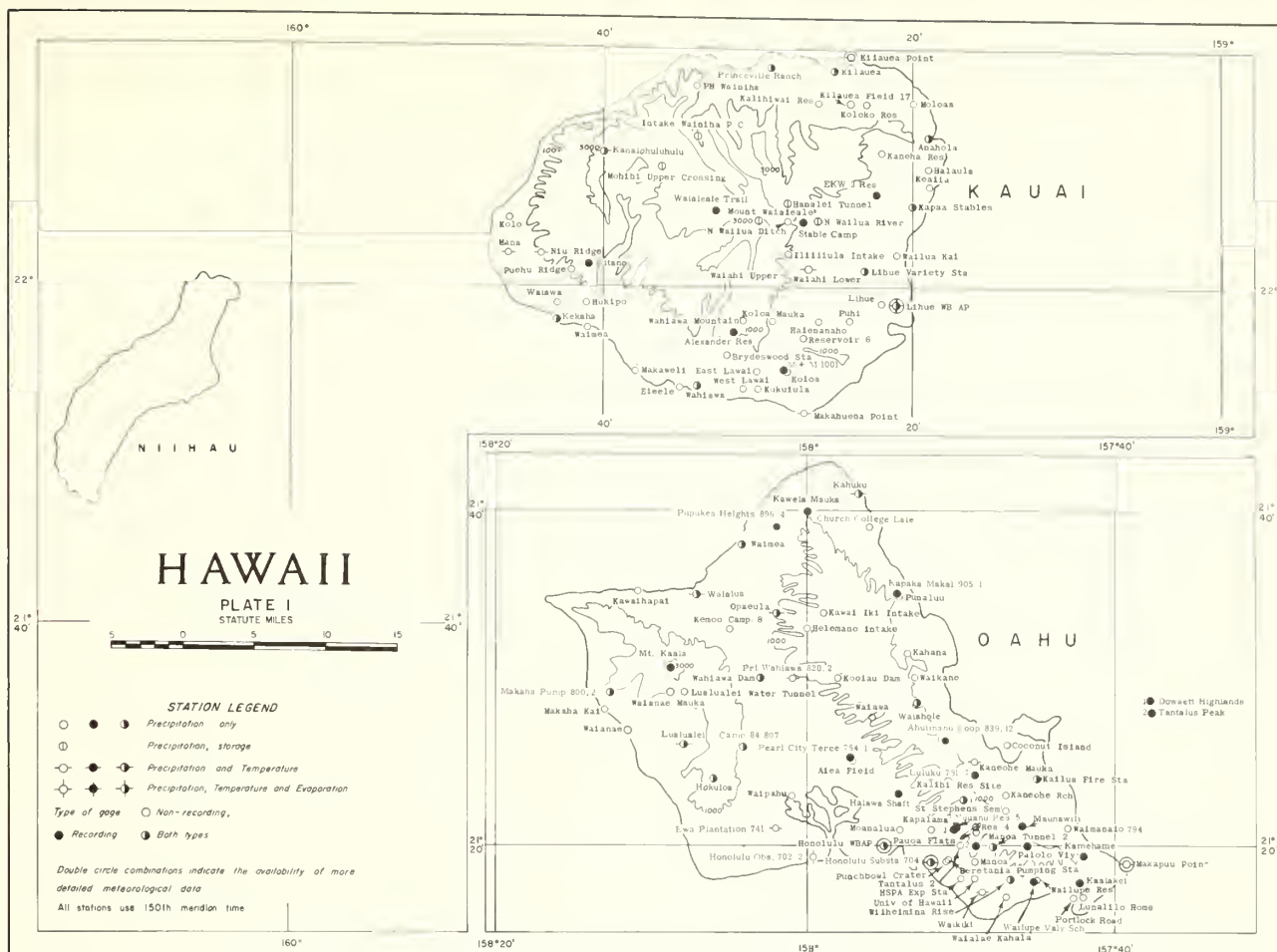
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

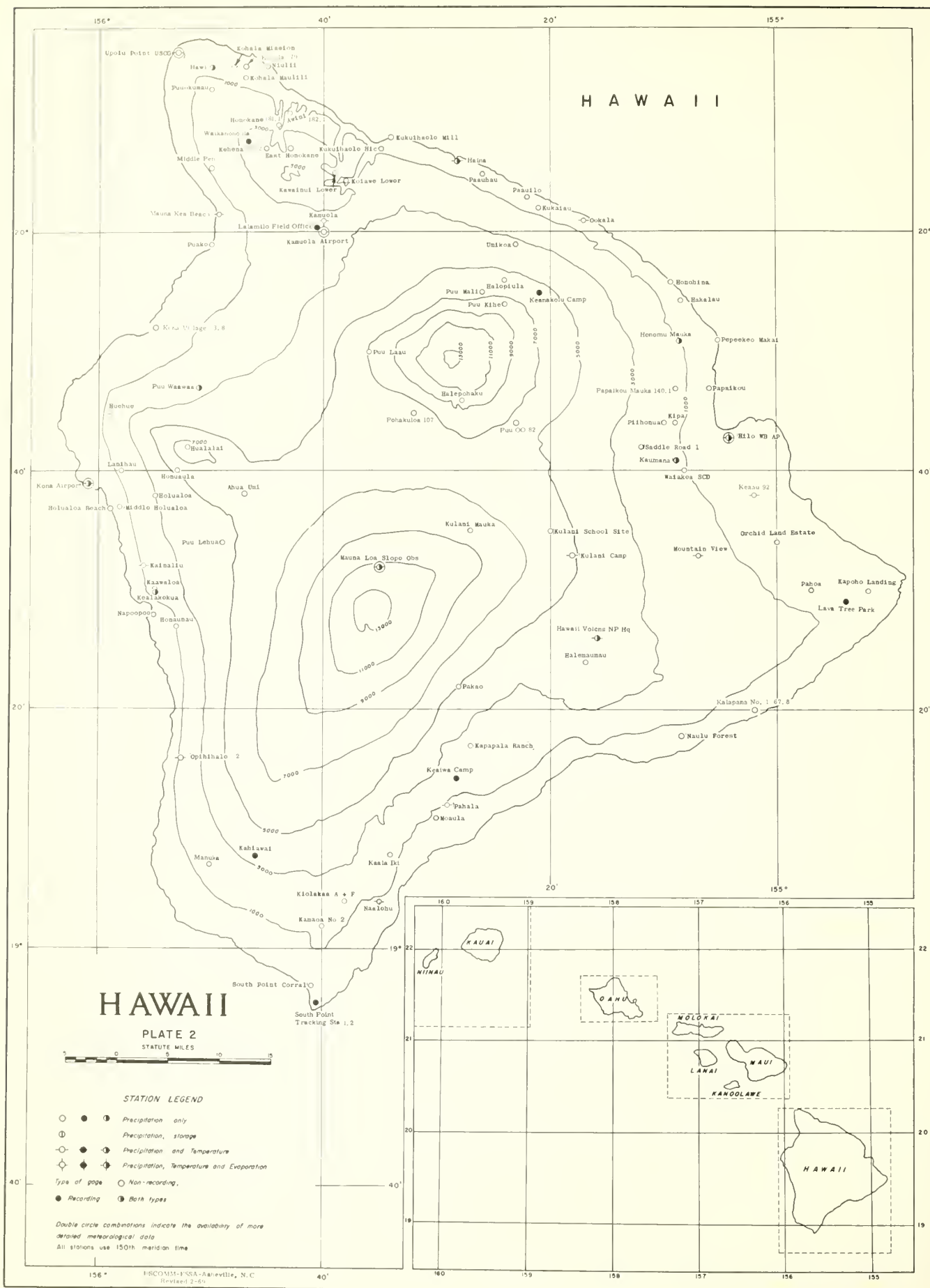
Subscription Price: 20 cents per copy, monthly and annual, \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Haggard
Director, National Climatic Center

USCOMM-NOAA-ASHEVILLE, N. C. 4/5/72-890





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CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICEHAWAII
ANNUAL SUMMARY 1971

Volume 67 No. 13

JUN 21 1972

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

Table 1

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
ISLAND OF KAUAI																										
KANALOHULU 1075	54.4		57.0		58.2		60.5		60.6		62.4		62.9		63.5		64.0		61.7		60.1		57.7		60.3	
KILAUEA POINT 1133	70.6M		73.5		72.4		73.4		74.8		75.3		76.1		77.3		78.5		76.6M		75.3		73.8M		74.8M	
LIHUE WSO 1020.1 AP	69.7	- 1.2	73.8	3.1	73.9	2.9	75.9	3.4	76.9	2.4	77.9	1.3	78.4	1.8	79.9	1.5	80.0	1.9	78.3	1.4	77.0	2.5	74.5	2.3	74.4	1.9
MAKAHOUENA POINT 940.1	71.1M		74.5M		73.0M		73.7		75.9		76.6		78.0		79.1		78.8		78.2		76.9		74.1M		75.8M	
MAKAHOUENA POINT 940.1	69.7	- 1.4	72.7	1.7	72.2	1.0	73.4	7.7	74.9	2.2	76.6	- 1.1	77.9	0.0	78.4	- 1.1	77.7	- 2.2	76.0	- 1.0	74.7	0.0	73.0	0.9	74.8	2.2
NIU RIDGE 1035	65.6		69.2		67.9		69.7		70.9		71.4		72.7		73.8		73.3		73.0		71.9		70.3		70.8	
WAIKAI LOWER 1054	67.1		72.6		69.6		70.1		71.5		72.7		73.7		72.5		72.6		71.5		69.2		67.6		70.9	
ISLAND	66.3		69.9		69.3		70.7		71.7		73.0		74.0		74.3		74.6		72.8		71.3		69.3		71.4	
ISLAND OF OAHU																										
EWA PLANTATION 761	68.8M	- 2.2	71.3M	1.4	71.8	0.0	73.3M	2.2	73.3	- 1.6	75.0M	- 1.8	75.9M	- 1.8	76.4M	- 1.9	76.9M	- 1.7	75.7	M	75.7	M	73.3	M	76.1	2.2
HONOLULU WSO 703 AP	70.7	- 1.5	73.6	1.7	72.9	7.4	75.3	1.3	75.3	4.4	76.1	- 7.7	77.4	4.3	78.5	1.1	79.5	1.1	78.0	- 1.2	75.6	2.2	73.3	0.0	75.4	3.3
HONOLULU SUBSTA 704	70.7	- 1.5	73.6	1.7	72.9	7.4	75.3	1.3	75.3	4.4	76.1	- 7.7	77.4	4.3	78.5	1.1	79.5	1.1	78.0	- 1.2	75.6	2.2	73.3	0.0	75.4	3.3
KAHUKU 912	69.4	- 2.1	72.7	1.5	72.2M	1.9	72.8	3.3	74.6	4.4	75.3	- 0.6	76.5	0.0	77.4	3.3	77.3	5.5	76.8M	7.4	74.8	6.6	72.5	4.4	74.4M	3.3
KANEHE NAUKA 781	70.3M		72.1M		73.4M		75.3		76.2		77.4M		78.3M		78.9		79.6		77.9		76.0		74.1		75.8M	
MAKAPUU POINT 724	67.9		70.8		70.5		71.5		71.8		73.2		74.5		75.5		75.7		75.7		72.5		71.6		72.6	
OPAEULA 870	66.4M	- 1.4	69.9M	3.2	68.9	2.1	70.4	2.4	71.1	1.3	71.8	2.2	72.7	1.5	73.5	0.9	73.7	5.0	73.7	5.0	71.0	- 1.7	67.8	2.4	70.6M	7.7
PRI HAWAIIA 820.2	66.5		70.0		69.8		71.6		71.8		73.7		75.0		75.4		76.0		74.0		72.1		70.0		72.1	
WAIKALE 896.3	-		-		-		-		-		-		77.3		77.8M		78.1		76.5M		73.3		71.6		71.6	
WAILAUA 847	68.5	- 2.0	70.9	7.7	71.1	8.2	74.4	9.9	72.7	- 7.7	74.1	- 1.2	75.3	- 4.9	75.5	- 1.2	75.8	- 5.5	74.5	- 6.9	72.9	- 5.5	70.5	- 1.7	72.9	5.5
WAIKIKI 717.2	72.0		74.5M		73.6		76.3		76.5		77.5		78.7		79.0		79.0		78.5		76.7		74.1		76.5M	
WAINALOA EXP FARM	69.7		72.6		73.2		74.2		76.1		76.1		77.5		78.2		78.5		77.4		75.7		73.5		75.2	
ISLAND	69.2		71.9		72.1		73.4		74.1		75.2		76.6		77.2		77.3		75.9		73.8		72.0		74.1	
ISLAND OF MOLOKAI																										
MOLOKAI AP 524	69.0M		71.4M		72.2		73.5M		74.2		75.4		76.2		77.0		77.9		76.2		74.7		72.5		74.2M	
ISLAND	69.6		71.4		72.2		73.5		74.2		75.4		76.2		77.0		77.9		76.2		74.7		72.5		74.2	
ISLAND OF LANAI																										
LANAI CITY 672	64.7	- 0.9	68.3		68.1M	2.1	68.6	1.6	68.5	0.0	70.3	2.2	71.1	0.0	71.8	- 0.1	71.3M	- 0.2	M		M		M		-	
ISLAND	64.7		68.3		68.1		68.6		68.5		70.3		71.1		71.8		71.3		-		-		-		-	
ISLAND OF MAUI																										
HALEAKALA PS 338	46.9		49.5		51.5		52.0		50.8		57.6		57.2		55.0		54.5		53.8		53.1		50.8		52.7	
HALEAKALA SUMMIT 338.4	46.9		49.5		51.5		52.0		50.8		57.6		57.2		55.0		54.5		53.8		53.1		50.8		52.7	
HANA AIRPORT 355	63.4		72.6		72.1		73.4		74.5		75.0		76.1		78.9		75.2		74.0		72.1M		70.3		73.3M	
KAANAPALI AIRPORT	69.2M		71.4		72.2		72.7		73.1		74.4		75.3		75.6		75.7M		74.7M		73.9M		71.5M		73.3M	
KAHULUI WSO 398 AP	69.8	- 2.3	72.3	0.6	73.5	1.3	74.3	0.9	75.1	- 2.2	77.3	0.1	78.0	- 0.3	77.7	- 1.3	78.5	0.1	76.7	- 0.6	75.5	0.5	72.7	0.0	75.1	0.1
KAILUA 446	67.5	- 0.9	69.9	1.8	68.9	0.8	69.7	0.6	70.4	1.1	71.4	0.5	72.6	- 0.1	73.1	0.1	73.5	0.2	71.9	- 0.8	70.6	- 0.4	68.6	- 0.3	70.7	0.0
KEANAKAPU BEACH 260.2	70.3		72.2		72.9		74.1		74.2		75.6		76.5		77.9		78.6		74.1		72.6		70.3		74.3	
KULA SANATORIUM 267	61.4	- 0.6	61.6	0.5	62.0	0.8	62.7	0.7	62.6	- 0.9	64.1	- 0.8	65.1	- 0.9	66.0	- 0.1	66.2	- 0.3	65.5	- 0.7	64.7	0.3	62.9	0.6	63.8	- 0.1
LAWAIIA 361	71.3		73.5		74.1		74.8		75.6		76.7		77.4		77.9		78.0		77.7		75.7		74.1		75.6	
WAILUKU 386	67.1		71.8M	0.5	72.6M	1.1	73.1M	0.5	M		75.1M	- 1.3	M		76.3M	- 1.7	76.9M	- 0.9	75.8M	- 1.2	74.8M	0.0	72.0M	- 0.6	-	
ISLAND	64.9		67.8		68.4		69.1		68.9		71.5		71.7		72.3		72.4		71.3		70.1		67.9		69.7	
ISLAND OF HAWAII																										
HAINA 214	69.2	- 0.3	70.6	1.1	70.4	0.9	71.4	1.4	71.9	0.5	73.3	0.3	74.3	- 0.2	74.9	0.4	75.5	1.0	74.2	0.2	72.3	0.3	69.9	- 0.3	72.3	0.4
HAWAII VOLCONS NP HO 56	58.3	- 2.8	58.2	0.3	57.8	- 1.1	59.2	0.1	59.0	- 1.6	60.7	- 1.3	61.9	- 1.0	62.2	- 1.4	62.6M	- 1.7	61.5	- 1.4	61.5	0.7	59.5	- 2.2	60.0M	0.7
HILO WSO 87 AP	71.3	- 0.5	71.9	1.3	69.4	- 1.2	70.9	0.7	72.2	0.8	75.0	0.7	76.6	1.7	76.6	0.8	76.8	1.1	75.4	0.3	73.8	0.6	70.9	- 0.6	73.4	0.3
KAILUAHUA 73.2	67.1		67.9		68.3		68.3		68.3		69.5		70.3		70.4		70.1		69.9		68.7		67.8		68.9	
KAILUAHUA 192.2	62.1		61.9		62.4		63.7		63.0		63.6		65.7		66.0		66.0		65.3		64.0		60.9		63.7	
KEAU 92	70.3	0.0	70.8	0.5	70.1	- 0.2	70.6	0.5	71.0	- 1.5	72.4	- 1.3	73.5	- 0.9	74.0	- 1.1	74.2	- 0.7	72.9	- 1.5	71.4	- 1.2	69.2	- 1.8	71.7	0.9
KEALAKEUA 26.2	67.4		68.5		68.7		68.7		68.7		69.8		70.7		71.1		71.3		71.1		69.8		68.3		69.5	
KOHALA MISSION 175.1	69.1	- 0.4	70.0	0.6	69.9	0.5	71.1	0.8	71.6	- 0.3	73.2	- 0.2	74.4	- 0.3	74.9	0.2	75.1	0.5	73.8	- 0.3	72.0	0.0	69.8	- 0.3	72.1	0.1
KONA (KAILUA) 68.3	67.1		74.5M		74.6M		75.4M		76.4M		76.4M		77.3M		77.8M		77.5M		75.8M		74.8M		72.0M		74.8M	
KULANI CAMP 79	53.4		52.9		53.0		54.3		54.0		54.0		55.2		56.1		57.1		55.8M		52.7		51.1		54.1M	
MAUNA LOA SLOPE OBS	36.6		40.8		42.5		40.3		42.5		47.2		46.9		45.0		44.8		46.3		42.2		39.1		42.9	
MOUNTAIN VIEW 91	60.2		60.0		60.4		60.9		60.6		68.4		69.1		69.1		69.1		68.3		66.3		64.6		67.2	
NAALEHU 14	69.7		70.3		69.8		70.7		70.7		71.5		73.0		73.8		74.3		73.8		71.9		69.9M		71.6M	
ODAKA 223	69.1M	- 1.7	70.2	0.0	7																					

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII
1971

TABLE 2

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL		
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	
ISLAND OF KAUAI																											
ANAHOLA 1114	8.43	1.71	5.59	.13	7.61	1.40	6.71	2.69	1.41	1.54	2.89	1.24	2.50	.11	1.95	-.94	3.35	1.22	1.14	-3.78	3.49	1.27	12.54	7.14	57.61	8.02	
BRIDESWOOD STA 985	12.36	5.15	4.48	-1.08	8.95	3.18	17.80	14.23	3.06	-.26	2.56	-.07	2.68	-1.42	2.80	-2.34	4.41	.89	3.62	-1.44	5.12	-.25	9.87	2.67	77.67	18.06	
EAST LAKE 934	12.39	5.37	3.50	-2.53	11.02	4.02	11.38	7.00	2.97	-.83	3.23	-.52	2.99	-1.98	2.83	-3.34	6.97	2.83	3.20	-2.10	5.44	-.44	11.45	4.41	77.35	13.05	
ELELE 927	10.21	5.41	2.55	-1.39	9.15	1.82	7.52	5.83	1.37	-.05	.55	-.45	.86	-.40	1.87	-2.33	1.28	-1.10	2.61	-.10	2.51	-.44	7.69	3.51	44.17	13.45	
HAKAULA 1110	8.83	1.92	5.61	-.26	8.21	2.17	7.23	3.31	2.39	-.59	3.15	1.24	2.29	-.03	2.63	-.27	3.13	.84	1.55	-3.04	4.62	-.57	12.56	7.04	62.20	12.34	
HALENAHAWA 1006	11.06		4.50		11.99		13.45		3.30		3.42		2.91		4.32		5.30		4.53		5.82		10.98		81.08		
HUKILO 945	11.90	1.77	4.77		8.87		5.51		.41		.97		.25		.76		1.33		3.10		.10		6.62		37.59		
ILILIULA INTAKE 1030	17.21		10.63		20.31		10.34		4.55		7.93		6.63		13.89		8.64		15.11		20.38		170.37		170.37		
INTAKE WAINIMA PC 1086	17.97		11.95		12.58		25.37		1.98		3.37		6.72		2.54		4.89		5.43		8.20		12.01		113.01		
KANALOHUHI 1075	25.52		5.47		11.69		6.63		1.01		1.55		1.67		3.77		2.24		4.14		1.43		6.66		71.78		
KENHA RESERVOIR 1092	10.36		8.08		15.99		13.46		4.41		4.74		3.30		5.63		5.18		4.88		9.55		16.74		102.32		
KAPUA STABLES 1104	8.86		4.46		9.24		7.81		3.07		3.66		1.58		2.60		2.18		1.76		6.27		12.83		64.99		
KAPUA 1112	8.09	2.21	5.32	-.63	6.43	1.13	7.08	3.72	.98	-1.21	4.23	2.60	2.43	-.51	2.51	-.02	1.96	-.14	1.68	-2.12	3.90	-.59	11.52	6.69	56.12	13.41	
KELAH 1112	8.13	5.45	1.24	-1.68	6.63	1.10	4.45	3.38	.13	-.65	1.36	1.02	.12	-.20	.02	-.99	.83	-.13	2.04	-.20	.04	-1.55	6.30	3.01	29.29	9.22	
KILAUWA 1134	4.98	3.15	7.30	1.18	10.39	3.00	23.67	18.16	2.94	-2.06	2.23	1.04	2.40	-2.04	3.40	-1.59	4.94	1.33	2.36	-2.78	5.14	-1.53	9.17	1.97	78.92	11.45	
KILAUWA FIELD 17 1135	4.78	5.31	7.73	-.45	10.97	1.09	23.37	15.56	3.27	-.43	2.10	-2.95	2.70	-4.01	2.97	-4.72	3.71	-1.57	3.44	-3.63	7.67	-.61	11.62	2.11	84.33	-8.81	
KILAUWA POINT 1137	8.05		1.77		7.77		15.00		1.85		2.29		2.32		3.19		3.14		8.64		11.86		68.67		68.67		
KILO 1033	10.08		2.07		5.21		3.50		.30		1.29		.16		.68		2.50		1.30		.07		4.01		31.13		
KILOA 936	11.95	5.04	3.89	-2.35	10.68	4.05	11.62	6.89	2.75	1.60	5.06	1.37	2.82	-2.24	3.08	-3.44	5.70	1.32	3.31	-2.00	5.77	-.30	8.70	1.08	75.33	7.82	
KILOA MAUKA 994	13.68	3.91	5.24	-4.09	14.17	5.52	19.49	12.83	5.15	-1.01	3.74	-1.98	3.63	-3.74	4.39	-4.41	7.07	.69	4.94	-3.00	8.00	-.27	15.22	5.03	104.72	9.48	
KILOKO RES 1137	7.11		8.00		13.08		19.04		2.83		2.72		3.21		4.32		3.42		3.07		7.99		12.51		85.39		
KUKUIULA 935	11.24	5.88	3.22	-1.25	7.09	2.73	16.93	4.52	.98	-.93	1.95	-.52	1.59	-.52	2.01	-1.23	4.01	1.75	1.58	-1.79	3.10	-.91	8.46	2.85	52.11	11.64	
KULU VARIETY STA	9.68		4.45		7.45		6.33		.28		4.20		2.63		3.33		3.33		2.38		1.98		9.47		59.18		
LITHUE 1020	10.93		3.08	-.27	9.92	3.50	8.03	4.17	1.62	-.212	3.23		1.69	-1.09	2.85	-.98	3.02		1.37	-3.61	4.67	-.46	7.50	1.32	57.18		
LITHUE WSO 1020.1 AP	11.94	6.43	1.69	-3.63	6.27	3.71	6.36	3.02	1.03	-1.56	2.98	1.52	.84	-1.10	.87	-1.59	2.69	.61	3.18	-.85	2.25	-2.28	7.52	2.34	49.62	6.62	
MAKAHUNA POINT 940.1	9.65		2.71		7.02		3.16		1.16		3.35		2.38		.97		2.44		1.78		1.71		5.96		42.27		
MAKAKELI 965	10.86	6.65	2.40	-2.18	6.93	1.05	4.48	3.75	.38	-.25	.55	-.18	.53	-.08	.69	-.54	.84	-.24	2.77	-.52	.73	-1.44	11.31	7.91	27.51	14.58	
HANA 1026	9.46	5.40	2.18	-.93	6.01	1.36	6.44	1.39	.33	-.57	1.58	.94	.18	-.38	.62	-.57	.86	-.07	1.75	-.30	.00	-2.05	4.59	1.29	38.00	5.95	
MOHIMI UPPER CROSS 1083	4.63	1.06	1.65		18.46		17.66		2.08		2.01		3.53		1.94		3.57		3.09		8.70		108.58		108.58		
MOLDAKA 1145	6.03	-.88	5.64	-.08	8.21	1.73	5.79	1.68	1.57	-1.78	2.32	-.61	1.48	-.90	1.76	-1.69	2.15	-.03	1.85	-2.77	3.93	-1.08	11.00	5.79	51.33	-.62	
MOUNT WATALEALE 1047	30.73		12.81		49.69		90.07		22.17		15.27		10.65		10.85		28.70		E23.54		E37.08		E59.54		E397.10		
NIU RIDGE 1035	10.45		2.76		4.28		3.21		.87		1.27		.13		1.81		2.47		4.14		.34		5.97		37.70		
N. MELU DITCH 1051	22.74		13.42		26.12		44.58		14.54		7.87		8.46		15.49		13.32		18.43		22.89		215.36		215.36		
PR. WAINIMA 1115	9.15	3.73	3.68	2.09	34.05	21.78	3.69	5.47	2.15	3.83	4.71	5.37	3.26	7.39	4.00	2.07	3.31	4.93	4.75	5.22	8.28	5.21	101.54	20.80	101.54		
PRINCEWILL RANCH 1117	9.15	.82	4.94	-2.44	13.88	4.30	27.32	20.54	2.16	-4.18	1.87	3.15	4.11	-2.06	4.25	-3.07	3.99	-.83	4.11	-2.19	4.01	-3.84	10.13	.938	89.92	4.83	
PUEHU RIDGE 1040	13.44		2.56		5.94		6.92		1.49		.76		.18		3.50		2.18		3.11		.23		6.76		47.07		
PUEHU 1013	11.31	3.94	9.36		12.12		12.32		2.38		3.44		2.23		4.36		4.10		5.79		10.55		73.15		73.15		
RESERVOIR 6 1004	12.92	5.48	4.28	-2.92	11.23	4.22	13.70	8.62	3.29	-.53	4.03	-.27	3.37	-1.97	4.39	-2.56	6.01	1.26	3.86	-2.21	5.41	-1.34	12.41	4.39	85.56	12.71	
WAIHANA 930	9.74	4.71	3.55	-.71	5.53	2.02	9.15	7.23	1.29	-.21	1.70	-.38	1.30	-.39	1.62	-.90	1.64	-.07	2.11	-.91	1.98	-1.11	7.79	3.30	47.40	13.35	
WAIHANA WAINIMA 990	20.25	6.96	8.50	-3.83	20.13	7.12	31.25	20.01	6.75	-.08	5.75	-5.53	7.25	-6.73	10.00	-10.67	10.25	-.54	9.13	-2.58	11.00	-1.80	27.50	13.38	162.76	11.71	
WAIHANA LOWER 1054	14.24		6.64		13.85		24.88		6.01		3.48		5.19		5.08		7.90		7.59		8.80		19.50		123.86		
WAIHANA UPPER 1052	14.33		7.85		17.05		27.02		10.13		4.42		7.36		6.44		10.54		9.35		11.29		19.45		145.23		
WAIHANA 943	8.34	4.42	1.47	-1.19	3.45	1.12	3.35	2.23	-.10	-.74	1.09	-.59	1.33	-.40	1.44	-.95	1.94	1.22	2.26	-.31	.09	-1.52	6.09	2.81	28.45	7.90	
WAIHANA KAI 1065	9.34		2.29		7.98		7.57		3.38		3.49		2.64		2.38		2.38		2.38		2.38		2.38		2.38		
WAIHANA 947	9.93	6.25	1.19	-2.21	3.84	1.48	4.59	3.46	-.29	-.56	.70	-.42	-.08	-.39	4.41	-.63	.63	-.03	2.38	-.67	.08	-1.66	7.25	3.90	31.37	10.50	
WEST LAKE 931	10.64	5.14	2.70	-2.01	6.63	2.23	9.57	7.05	1.19	-.84	1.70	-.12	1.79	-.64	2.41	-.86	4.10	1.63	3.70	-.01	3.28	-1.02	8.34	3.04	56.05	13.61	
ISLAND	12.36		4.79		9.85		14.59		3.00		2.78		2.47		2.97		3.95		3.83		4.99		10.64		76.22		
ISLAND OF OAHU																											
BERETANIA PUMPING STA	8.65		2.51		8.59		3.05		1.48		4.22		.24		.36		3.11		1.55		1.85		2.19		35.80		
CAMPBELL IND PK 702.5											1.45		.05		.07		.12		.96		1.00		.79				
CAMP 84 807	17.90		2.14		5.68		4.92		1.39		2.20		.27		.43		2.75		1.56		2.11		2.80		44.17		
CHURCH COLLEGE LAKE	15.19		1.42		5.57		6.22		1.43		2.97		.81		2.47		3.03		2.01		1.91		6.84				

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII
1971

TABLE 2 - CONTINUED

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE
WAILALEE 896.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WAILALEA 847	21.82	17.72	1.70	3.11	4.82	1.32	3.34	1.62	-26.8	8.4	2.86	2.14	1.19	-5.9	1.70	1.27	1.87	3.95	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45
WAIANAE 798.2	11.45	7.66	1.97	1.16	1.94	.37	2.08	.96	-29.3	.32	3.53	3.18	1.15	-.54	1.70	1.27	1.87	3.95	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45
WAIANAE MAUKA 803	4.39	4.39	2.28	5.37	11.72	3.80	1.87	22.46	11.06	11.84	.00	7.24	4.12	1.44	2.38	1.97	2.39	3.95	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45
WAIANA 836	21.70	10.06	3.92	9.02	14.71	.87	22.46	11.06	11.84	.00	5.56	5.28	4.87	8.43	4.67	9.74	7.73	2.24	10.00	11.02	16.04	3.94	15.68	.19	129.18	19.61
WAIKANE 885	19.46	7.59	10.01	3.21	11.75	3.49	28.80	14.80	4.62	7.24	5.43	2.35	3.95	6.81	6.51	5.16	9.07	1.47	6.17	5.78	7.90	3.26	11.82	2.42	125.69	18.80
WAIKIKI 717.2	7.90	2.76	2.76	3.33	3.33	2.66	3.17	1.98	1.98	1.47	2.70	.16	1.23	1.78	1.56	1.88	1.64	.28	3.09	1.08	4.22	.80	4.92	.80	49.32	2.30
WAIKIKI EXP FARM	12.26	2.54	2.54	2.65	2.65	3.17	1.98	1.98	1.47	2.70	.16	2.92	1.72	1.01	.57	.46	.77	1.39	2.72	.38	1.05	1.51	2.40	1.14	37.25	11.12
WAIKANE 892	18.11	10.73	2.68	3.28	5.02	.32	6.00	3.35	1.06	.66	5.00	3.54	1.01	.57	1.46	1.49	3.58	1.92	1.36	1.94	3.68	.64	3.94	.34	42.10	5.46
WAIKANE 750	12.84	8.68	2.45	1.24	4.45	1.36	6.24	2.36	1.06	.66	5.00	3.54	1.01	.57	1.46	1.49	3.58	1.92	1.36	1.94	3.68	.64	3.94	.34	42.10	5.46
WILHELMINA RISE 721	8.52	3.89	2.14	1.88	6.40	1.88	5.22	2.02	.90	1.54	5.00	3.54	.62	1.24	.76	1.49	3.58	1.92	1.36	1.94	3.68	.64	3.94	.34	42.10	5.46
ISLAND	15.68		3.36		7.26		8.19		3.01		4.07		1.40		1.76		3.54		2.94		4.28		6.29		61.80	
ISLAND OF MOLOKAI																										
KALAPAPA 563	10.20	.25	3.45		6.25	.92	1.04		.92		1.04		.27		.26		.54		1.43		2.19		.35		27.15	
KANAWAKAI 536	9.47	2.90	2.70		.75	.00	.13		.00		.00		.00		.00		.03		.03		.77		.00		16.83	
KEDNELELE PENS 551	8.75	6.25	2.55		1.90	.00	.00		.00		.00		.00		.00		.00		.00		.00		.00		21.48	
KUALAPU 534	11.66	7.52	2.60	1.04	3.21	1.35	2.46	.60	2.05	1.32	1.26	.59	.24	.64	.34	.88	.40	.38	.25	2.17	1.58	1.52	.28	3.98	24.54	5.77
MAUPULU 542	19.02	9.16	1.50	2.52	6.02	1.40	2.33	2.28	2.05	.66	1.40	.79	.95	1.99	.76	2.14	3.43	.83	1.46	1.95	2.76	.89	2.19	2.02	40.55	.71
MAUNALO 511	10.51	6.24		4.85	1.08	1.31	1.00	.87	.60	.72	.03	.04	1.22	.78	.42	1.89	.78	.21	2.16	1.08	1.69	1.87	1.63			
MOLOKAI AP 524	11.51		2.84	2.62	2.35		2.35		.11		.33		.02		.20		.10		.42		1.06		.56		22.14	
PUUOHOKU RANCH 542.1	17.37		2.82										.72		.25		.85		.22		1.52		.70		45.02	
WAINOLU 540	17.37		1.81		9.18		9.61		1.40		.83		.38		1.15		.85		.22		1.52		.70		45.02	
ISLAND	11.68		2.34		4.08		2.86		.82		.93		.31		.52		1.46		.59		1.62		1.23		28.44	
ISLAND OF LANAI																										
KANEPU 690	13.61	1.69	2.71		.36	.39	.39		.39		.29		.29		1.89		.26		1.85		.16		.89		24.49	
KANAWAKAI HARBOR 658	10.24	.84	.42		.38	.99	.99		.99		.08		.08		.01		.60		1.89		.25		.16		15.86	
LANAI CITY 672	16.90	12.28	1.50	2.23	4.30	.03	.82	2.10	2.51	.16	.13	1.29	.39	1.33	.79	.99	1.50	.77	1.28	1.67	.42	2.44	1.40	2.32	31.94	3.05
LANAIHALE 684	15.80	1.18	5.30		1.65	1.65	.05		.05		.05		.12		1.03		2.02		1.99		.79		1.59		33.17	
MAHANA 694	19.47	.75	2.39		.38	.01	.18		.01		.18		.02		.34		.11		2.74		.02		.38		26.80	
MAHAUEA 676	13.72	.05	2.30		.48	.89	.03		.03		.35		.37		.32		1.32		.65		.13		.46		20.70	
MAHAUEA 685	15.16	.72	3.12		1.24	2.64	.03		.03		.35		.37		.32		1.32		.65		.13		.46		20.70	
ISLAND	16.90		1.30		4.30		.82		2.51		.13		.39		.79		1.50		1.28		.42		1.40		31.94	
ISLAND OF MAUI																										
AUWAHI-252	19.31	2.30	4.13		4.66	.00	.54		.00		.54		.00		.70		1.12		.20		1.16		2.55		36.67	
HALEKALA 8 E S 434	14.76	7.36	3.50	5.62	6.31	2.90	11.15	3.19	2.10	2.30	.46	2.32	2.14	1.99	1.54	3.14	3.14	.84	2.20	2.09	.93	2.51	1.45	5.89	55.68	17.29
HALEKALA RANCH 432	14.64	8.81	3.00	3.48	6.31	3.27	5.76	1.14	.31	1.53E	.10	.80E	4.42	1.10	.80	1.37	.79	.53	.37	2.30	.93	2.51	1.16	5.47E	30.79	12.41
HALEKALA RS 338	33.89	4.66	5.30		9.48	.65	.65		.00		.94		.95		.95		1.87		1.15		1.65		3.54		64.28	
HALEKALA SUMMIT 338.4	26.23	1.58	5.31		11.34	.65	.65		.00		.24		.30		.30		1.72		.57		3.32		2.95		56.21	
HALIIMALE 423	17.75	1.46	4.25		4.12	.97	.31		.97		1.05		1.05		.67		1.04		.85		1.48		1.81		35.76	
HAHAKIAPOKO 485	17.85	13.08	1.71	2.99	8.16	.43	8.96	4.07	2.43	.85	.97	1.80	1.83	1.63	1.42	2.28	2.33	.19	1.82	1.65	4.19	.16	2.25	3.84	50.87	2.03
HANA 354	25.26	8.05	8.10		2.36	1.87	1.87		2.36		1.87		1.70		1.70		3.42		2.28		7.07		2.83		66.57	
HANA AIRPORT 355	27.38	1.90	7.98		8.34	3.23	1.71		2.77	4.60	5.09	5.08	2.80	8.51	5.82	1.68	6.60	.72	11.33	1.28	6.55	5.30	11.18	9.21	111.18	9.21
HANAHULI 281	24.90	1.75	9.94		10.63	4.16	1.96		4.16		1.96		2.40		.98		3.34		1.83		3.62		3.28		68.80	
HOLUA CABIN 259.5	47.45	7.30	5.43		12.89	.75	.04		.38		.38		.34		.34		1.50		1.52		3.34		6.26		87.60	
HONOHU 440	11.40	2.02	15.00		14.80	5.72	1.90		1.90		1.90		1.60		1.60		4.20		5.00		7.86		7.86		78.44	
HONOHU 493	13.91	9.45	1.76	1.98	4.06	.02	4.44	1.26	1.97	.29	.55	1.13	.85	1.53	.86	1.72	1.99	.31	1.41	1.27	2.23	1.09	1.79	2.86	35.42	.87
HONOHU 493	26.40	1.00	10.60		15.00	3.00	1.90		3.00		1.90		1.60		1.60		4.20		5.00		7.86		7.86		78.44	
KANAWAKAI AIRPORT	10.24	1.08	1.92		.72	.12	.12		.12		.22		.13		.13		.37		.30		.91		.91		17.44	
KAHUNA INTAKE 374	20.38	11.03	2.17	7.75	3.57	8.01	2.10	7.03	2.85	5.46	1.60	5.55	2.30	6.46	2.36	5.31	2.84	1.77	2.75	3.09	2.50	5.25	2.00	11.18	47.42	55.83
KAHULUI WSD 398 AP	13.66	10.52	.78	1.76	2.92	.70	1.13	.31	.10	.59	.21	.03	.09	.34	.54	.19	.25	.00	.07	.80	.24	1.28	.14	2.56	20.13	3.80
KAILIKI 436	52.38	41.56	4.14	9.20	15.16	.04	15.44	.74	4.69	5.59	1.38	5.41	4.09	4.62	1.38	8.33	5.70	.24	8.55	1.00	9.00	2.74	9.05	7.70	131.16	.09
KAILIKI 440	17.75	8.21	2.48	7.98	14.07	2.48	26.57	18.04	5.55	4.37	2.77	4.60	5.09	5.08	2.80	8.51	5.82	1.68	6.60	.72	11.33	1.28	6.55	5.30	111.18	9.21
KAUHAU INTAKE 375	18.71	12.65	1.68	4.13	2.55	2.60	3.50	.11	2.03	.74	.51	1.31	1.11	1.14	2.03	.87	1.20	.53	.87	2.19	1.36	2.15	3.56	3.68	39.11	6.80
KEAHUA 410	20.04	16.29	1.24	1.89	2.13	.69	1.51	.47	1.25	.56	.10	.16	.10	.44	.17	.39	.52	.08	.11	1.10	.22	1.61	.14	3.23	26.31	5.67
KEAHUA 340	21.00	5.77	6.06	15.81	22.50	.33	41.30	16.20	11.30	.90	3.70	10.07	9.10	10.37	1.00	10.65	11.00	1.23	8.00	7.15	17.30	1.92	10.00	9.12	188.68	58.51
KEAHUA BEACH 260.2	14.85		3.01		1.58	.00	.33		.33		.33		.00		.00		1.06		.00		.00					

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII
1971

TABLE 2 CONTINUED

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE
WAIPOI RANCH 256	15.28	11.31	1.37	-2.03	3.53	.53	9.78	7.86	1.82	1.24	.00	-.22	.00	-.33	.00	-.94	1.50	.55	.54	-1.10	2.23	-.13	4.50	1.13	40.55	17.87
ISLAND	18.55		1.98		6.94		9.86		2.35		1.06		1.88		1.13		2.94		2.29		3.96		3.19		56.13	
ISLAND OF HAWAII																										
AMUA UMI 75	18.00	15.93	1.00	-1.17	1.00	-1.99	4.30	2.02	.30	-2.16	.80	-.92	.89	-.98	.60	-2.39	1.30	-.32	.20	-1.69	1.00	.60	.60	.68	29.99	5.05
ANTINI 182.1	25.00	14.38	4.80	-6.63	11.15	-4.84	30.18	13.25	.68	-11.73	1.45	-6.72	.78	-11.88	13.71	1.40	5.09	-1.24	8.85	-.17	5.76	-4.45	5.76	-8.13	113.21	-26.42
CITY OF REFUGEE 27.4	13.88		.32		2.18		1.93		1.11		.80		1.22		3.76		3.76		2.28		2.75		1.82		33.43	
EAST HONOLULU 183.2	11.85	-1.28	2.10	-10.83	18.00	-.93	10.93	7.61	2.95	-11.32	6.00	-6.70	12.23	-4.03	4.00	-12.39	3.62	-4.98	5.90	-3.63	4.22	-7.76	13.78	-4.28	95.58	-75.74
HAIWA 214	8.09	3.03	1.56	-5.36	9.42	.86	5.58	2.09	.89	-4.03	.41	-1.51	2.99	-.47	.72	-3.92	.61	-1.68	1.90	-3.35	3.22	-2.45	3.99	-3.71	39.38	-24.68
HAKALAU 142	13.73	6.18	6.17	7.41	10.96	-3.93	21.07	8.52	4.48	-5.37	2.55	-4.28	4.77	-5.06	2.73	-9.05	6.84	-1.08	8.23	-3.02	18.14	5.80	22.38	7.76	122.05	-14.04
HALENAHUA 92	23.00		3.92		8.80		2.30		2.33		.23		1.86		1.49		2.05		2.03		11.15		9.79		69.22	
HALEPUA 117	7.92	4.20	1.44	-4.30	5.75	-1.21	2.39	1.68	.24	-1.95	.00	-1.03	2.35	-.72	1.30	-3.47	.78	-.60	.90	-2.61	1.37	1.88	2.61	-2.84	26.05	-16.91
HALEPOHAKU 117	7.62		1.02		1.98		3.33		.36		.01		2.12		.66		.76		.83		4.82		4.70		29.21	
HAWAII VOLCANO NP HQ 54	29.09	16.87	4.85	-5.40	13.38	-1.40	12.79	4.39	6.77	.70	1.32	-.32	6.25	1.13	1.86	-5.73	4.63	-.46	5.27	-1.61	5.88	-5.30	22.96	12.82	114.05	15.60
HAWI 168	18.79	14.09	1.53	-2.81	6.11	-.89	2.52	-2.52	1.74	-1.82	1.43	-1.53	3.06	-.87	1.28	-2.91	1.51	-.76	1.92	-1.69	3.25	-.77	1.95	-3.97	45.09	-4.67
HILL COUNTRY CLUB 86.6	10.20		11.09		23.83		532.96		12.69		3.89		514.46		3.27		8.58		9.60		31.45		31.90		E193.92	
HULO 550 87 AP	13.47	1.65	1.59	-7.63	12.04	-2.68	27.82	15.90	6.49	-2.84	2.79	-.00	6.13	-5.69	2.68	-8.79	8.53	-.13	7.28	-3.52	17.88	-4.51	32.19	17.01	140.69	-4.07
HULUALA 70	22.60	18.09	1.29	-2.72	5.00	-1.24	4.20	-2.97	5.50	-4.50	4.40	-5.31	16.04	-7.66	4.40	-3.45	9.60	-1.49	3.20	-2.67	2.50	-1.64	2.60	-.34	81.83	-3.08
HULUALA BEACH 68	10.20	13.93	.79	-1.07	.66	-1.81	2.08	-.23	2.88	-.23	.88	-.45	2.94	-.40	1.90	-.90	5.39	2.68	.14	-2.34	3.47	1.70	2.22	-1.34	37.61	8.77
HONOLULU 27	15.40		1.50		4.11		4.26		6.26		3.43		7.43		3.69		10.20		5.12		5.33		5.13		71.86	
HONOLULU 137	19.83	1.08	1.03	-10.04	12.44	-5.83	22.49	7.00	4.86	-7.45	2.08	-5.64	5.05	-6.32	2.59	-11.15	5.80	-3.41	8.24	-4.63	16.97	-3.26	22.18	-4.99	121.41	-38.14
HONOLULU 181.1	16.36	16.11	7.00	-5.33	17.16	-.08	13.36	-3.29	2.14	-9.25	2.58	-6.42	5.24	-7.44	6.50	-5.92	.89	-4.82	1.46	-7.05	12.02	1.39	2.52	-13.88	98.53	-46.02
HONOLULU MAUKA 138	27.61	.25	7.79	-10.53	21.97	-.85	32.00	13.02	10.71	-4.54	5.45	-5.04	10.83	-4.17	4.36	-13.29	7.38	-4.35	10.82	-4.89	33.14	15.55	41.36	19.76	202.12	2.62
HONOLULU 71	10.20	16.33	1.16	-2.27	2.20	-1.90	3.05	.08	2.25	-2.38	2.60	-1.50	3.08	-1.01	1.80	-1.54	3.04	-.30	1.04	-1.18	1.60	-.04	.68	-.87	42.58	3.40
HUALALAI 72	3.24	1.48	8.65	6.80	.74	-1.31	2.36	-.97	.80	-1.08	.68	-.73	.88	-.73	.44	-.98	1.20	-.55	.08	-.86	.06	.54	.76	.14	19.79	2.63
HUEHUE 92.1	25.10	17.37	.87	-1.84	1.55	-2.17	2.80	-.21	3.56	-1.11	1.22	-3.28	2.13	-.37	1.39	-1.33	1.07	-2.16	.73	-2.86	2.54	-.39	1.93	-.43	41.28	1.22
KAAALA 161 12	21.08		3.10		5.71		3.04		3.05		.66		2.68		1.50		5.42		3.67		3.76		6.21		65.30	
KAAHALA 29	17.53	13.80	1.84	-2.14	1.88	-3.02	9.78	-.82	1.85	-4.52	1.62	-5.07	3.08	-.75	3.08	-1.51	5.26	-.55	1.27	-4.55	5.04	1.68	1.72	-1.11	53.02	-9.24
KAINALIU 73.2	19.03	15.07	.90	-2.49	1.95	-3.33	6.31	-.65	2.97	-4.73	2.15	-5.80	8.51	-.40	2.56	-5.13	8.38	-.78	3.08	-3.12	3.86	-.41	3.32	-.31	63.02	-8.24
KALAPANA RD 1 67.8	34.14		4.27		7.41		20.60		3.08		2.36		3.29		1.67		5.21		4.08		13.46		3.06		122.63	
KALAPANA RD 2 5	19.83		2.28		2.87		7.48		1.40		1.25		1.60		.60		3.00		3.13		9.20		4.22		56.22	
KAMUELA 192.2	12.52	8.21	1.57	-2.65	2.11	-2.16	1.76	-2.13	.48	-2.28	.12	-.54	1.79	-.85	.54	-2.54	.34	-.96	.95	-3.14	2.85	.18	2.66	-2.03	28.81	-9.09
KAPAPALA RANCH 36	22.41	13.40	3.95	-3.58	3.86	-3.48	6.95	1.85	4.70	-.69	.44	-1.66	4.29	1.14	.09	-4.29	4.06	-.03	3.94	-1.66	12.90	6.67	7.22	2.55	73.81	11.60
KAPHO LANDING 93.5	30.85		4.91		3.85		31.20		4.35		3.26		4.92		1.75		4.43		6.83		14.21		17.90		128.46	
KAWAII LOWER 193	13.98	.79	1.40	-13.27	13.98	-6.18	18.33	-2.65	1.31	-16.25	6.96	-3.51	11.48	-4.17	3.83	-13.12	5.24	-2.49	8.17	-3.06	6.21	-5.23	8.13	-10.24	99.02	-79.38
KEAU 92	14.62	2.06	8.83	-4.60	12.86	-2.72	30.24	17.82	6.11	-3.77	2.99	-.87	5.54	-4.60	3.02	-8.73	5.62	-3.43	8.27	-4.11	19.08	5.15	32.56	16.39	149.74	4.59
KEALAKEUA 26.2	17.13		2.36		2.02		6.12		2.33		2.38		7.50		3.30		7.65		2.00		5.32		2.30		60.58	
KEHENA 181.2	10.21	-.11	2.49	-7.57	13.00	-.30	3.37	-.60	6.48	-6.14	8.87	-1.68	10.73	-1.88	3.65	-5.94	2.59	-2.82	3.89	-2.26	2.10	-6.19	8.00	-4.94	71.71	-41.44
KIDAKA A Z F 6	26.50	19.11	.60	-1.32	7.05	-1.00	7.50	-2.33	3.00	-2.04	.50	-.18	.40	-.98	1.20	-5.37	5.00	-.92	3.00	-2.25	17.30	10.72	7.96	3.49	96.61	26.23
KIPA 89.2	11.37		7.92		25.59		26.43		12.93		4.63		13.17		4.34		9.69		9.33		35.83		46.77		208.20	
KOHALA 179.1	15.92	11.15	1.03	-3.45	2.57	-.62	2.87	-.58	1.13	-1.61	1.31	-.69	3.26	-2.28	1.88	-5.09	2.71	-.08	3.67	-3.27	3.76	-4.72	6.21	-5.01	65.30	-33.38
KOHALA MAULILI 176	16.51	9.58	1.15	-5.81	10.97	-2.19	3.60	-5.89	2.06	-4.67	1.50	-3.68	4.36	-2.46	1.59	-5.35	2.38	-1.51	2.94	-3.14	5.65	-.79	2.60	-6.67	55.31	-28.20
KOHALA MISSION 175.1	16.92	11.46	1.14	-4.00	8.49	1.98	3.27	-3.51	1.80	-2.95	1.33	-2.35	3.73	-1.47	1.18	-4.49	2.68	-.26	2.31	-2.25	3.71	-1.31	2.93	-4.32	49.49	-13.47
KOHALE LOWER 196	10.81	1.90	.91	-9.43	9.49	-3.34	12.26	1.04	.41	-9.89	3.53	-3.13	8.17	-1.46	2.34	-8.74	2.36	-1.97	4.80	-2.19	2.90	-4.00	5.18	-6.65	63.46	-49.94
KONA (KAILUA) 68.3	11.14		.40		1.70		2.06		1.47		.53		3.02		.86		3.42		.07		2.19		.42		27.28	
KONA VILLAGE 93.8	15.32		1.30		1.89		.40		.10		.16		.22		.19		.60		.00		.93		.79		20.26	
KUKAIAU 222	8.13	.48	2.60	-9.05	17.26	2.65	10.37	-3.05	1.63	-6.98	.48	-2.93	4.21	-2.17	1.54	-6.60	.70	-2.72	1.93	-3.92	7.36	2.11	7.99	-5.23	64.40	-43.63
KUKUHALE MC 199	11.16	1.38	1.24	-6.07	10.14	-.13	7.18	-2.05	.95	-5.78	.86	-2.18	3.26	-2.28	1.88	-5.09	.71	-.08	3.67	-3.27	3.76	-4.72	6.21	-5.01	65.30	-33.38
KUKUHALE MILL 206	10.46	5.87	1.10	-4.64	1.46	-.09	4.92	-1.47	.84	-3.59	.40	-1.65	1.84	-1.81	.63	-3.61	.50	-1.55	1.88	-2.90	1.41	-3.36	2.85	-4.32	34.29	-23.29
KULANI CAMP 79	21.66		4.16		14.45		8.93		6.14		.78		7.92		2.81		4.92		5.29		17.89		17.24		112.19	
KULANI MAUKA 78	19.42		1.14		10.22		8.58		6.27		.70		7.65		2.67		1.31		5.69		10.36		13.20		98.94	
LANTHAW 68.2	20.07		2.52		3.10		5.49		5.82		1.85		11.75		3.41		9.96		2.51		4.46		2.74		73.68	
MAHALAU 103																										

TEMPERATURE EXTREMES

HAWAII
1971

Table 3

Station	Highest	Date	Lowest	Date	Station	Highest	Date	Lowest	Date
* * *					* * *				
ISLAND OF KAUAI					ISLAND OF MAUI				
KANALOHULUHULU 1075	78	9-22+	35	1-30	HALEAKALA RS 338	75	3-25	31	1-30+
KILAUEA POINT 1133	94	9-19	57	1- 6	HALEAKALA SUMMIT 338.4	65	7-21+	-	-
LIHUE WSO 1020.1 AP	87	9-23+	53	1- 7	HANA AIRPORT 355	89	8-28	51	1- 8
MAKAHUENA POINT 940.1	90	8- 9	56	1- 6	KAANAPALI AIRPORT	88	8-16	55	1-26+
MANA 1026	92	9-10	55	1-16	KAHULUI WSO 398 AP	92	10-13+	52	1- 8
NIU RIDGE 1035	87	10-29	51	1-31	KAILUA 446	82	8-10+	55	1-23+
WAIHI LOWER 1054	88	7-28	45	1- 7	KEAWAKAPU BEACH 260.2	92	9- 6+	53	1-30+
* * *					KULA SANATORIUM 267	85	5-20	48	3-17+
ISLAND OF OAHU					LAHAINA 361	92	9-26	56	1- 7
EWA PLANTATION 741	88	9- 8+	52	1- 8	WAILUKU 386	89	12-27	52	12-31+
HONOLULU WSO 703 AP	89	9- 7+	56	1- 7	* * *				
HONOLULU SUBSTA 704	85	9-18+	59	1- 7	ISLAND OF HAWAII				
KAHUKU 912	87	2-19	53	1- 8	HAIRNA 214	86	9-18	59	12-31+
KANEQHE MAUKA 781	89	8-13	56	1- 7	HAWAII VOLCNS NP HQ 54	75	11-25+	42	1- 2
LUALUALEI 804	91	9- 7	53	1- 7	HILO WSO 87 AP	91	8-14	54	3-18
MAKAPUU POINT 724	85	7-23	51	1- 8	KAINALIU 73.2	81	11-19+	55	1-21+
OPAEULA 870	90	8- 8+	52	1- 7	KAMUELA 192.2	81	11- 7	42	12-23+
PRI WAHIAWA 820.2	90	8- 6	50	1-11+	KEAAU 92	86	8-15+	58	1-22+
WAIALEE 896.3	-	-	-	-	KEALAKEKUA 26.2	82	8-31	53	2-23
WAIALUA 847	89	9-23+	52	1- 7	KOHALA MISSION 175.1	85	9-25+	58	1- 8+
WAIKIKI 717.2	90	9-17	53	1- 7	KONA (KAILUA) 68.3	88	11- 9+	60	1- 9
WAIMANALO EXP FARM	88	9-15+	55	1- 7	KULANI CAMP 79	82	5-13	33	1- 1
* * *					MAUNA LOA SLOPE OBS	63	6-22	19	1-22
ISLAND OF MOLOKAI					MOUNTAIN VIEW 91	82	9-16+	53	3-22+
MOLOKAI AP 524	87	9-19	57	1- 8+	NAALEHU 14	84	8-30+	58	1- 7+
* * *					OOKALA 223	86	9-19+	58	1-26+
ISLAND OF LANAI					OPIHIHALE 2 24.1	85	7-14+	52	1-21+
LANAI CITY 672	83	12-20	50	1- 8	PAHALA 21	-	-	55	12-22+
					PUAKO 95.1	90	8-17	58	1-21
					UPOLU POINT USCG 159.2	86	9-25+	56	12-12
					WAIMEA KOHALA	78	5-17	38	1- 3+

See Reference Notes Following Station Index

Table 4

TOTAL EVAPORATION AND WIND MOVEMENT

HAWAII
1971

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
* * * ISLAND OF KAUAI														
LIHUE WSO 1020.1 AP	EVAP	4.978	6.118	6.868	7.918	10.098	10.128	11.25	10.888	9.858	8.378	6.61	6.228	99.24
	WIND	2993	3289	5512	5186	4273	43908	5363	4772	4593	4552	4992	5649	55564
	MAX	75.8	80.8	76.8	81.1	84.3	84.2	85.2	85.3	84.8	81.0	77.1	75.2	81.0
	MIN	56.6	60.7	61.4	62.4	62.1	62.8	63.7	63.7	63.5	62.3	60.8	59.5	61.6
* * * ISLAND OF OAHU														
HONOLULU OBSERV 702.2	EVAP	3.868	5.05	6.64	6.75	8.44	8.87	9.86	10.53	7.75	7.718	5.23	5.028	85.71
	WIND	1231	701	1006	895	984	1191	1276	1272	979	951	876	924	12286
	MAX	77.6	85.7	84.4	86.8	88.7	89.8	91.3	92.2	89.5	88.4	83.0	80.1	86.5
	MIN	60.0	62.6	63.5	65.0	64.6	65.6	66.1	66.3	66.7	65.0	63.9	61.2	64.2

NAME	RELOCATION AND CHANGES OF EQUIPMENT	DATE
ISLAND OF KAUAI		
EKW #3 RESERVOIR 1094.1	EQUIPMENT MOVED 1000 FEET SE	APRIL 22, 1971
ILILIULA INTAKE 1050	EQUIPMENT MOVED 40 FEET N	AUGUST 1, 1970
PRINCEVILLE RANCH 1117	EQUIPMENT MOVED 25 FEET E	MARCH 12, 1971
ISLAND OF OAHU		
KAILUA FIRE STATION 791.3	EQUIPMENT MOVED 60 FEET W	DECEMBER 9, 1971
MOUNT KAALA #44	EQUIPMENT MOVED 225 FEET N	JUNE 30, 1971
PORTLOCK ROAD 724.4	EQUIPMENT MOVED 80 FEET S	JUNE 2, 1971
WAIKIKI 717.2	EQUIPMENT MOVED 375 FEET NNE	APRIL 1, 1971
WAIPIHU 750	EQUIPMENT MOVED 400 FEET NE	OCTOBER 1, 1971
ISLAND OF HAWAII		
HILO COUNTRY CLUB 86.6	EQUIPMENT MOVED 500 FEET N	JULY 22, 1971
KAMAOA 2 5	EQUIPMENT MOVED 175 FEET SW	APRIL 15, 1971
KAPAPALA RANCH 36	EQUIPMENT MOVED 30 FEET SE	JANUARY 14, 1971

See Reference Notes Following Station Index

STATION INDEX

ISLAND OF KAUAI										ISLAND OF MOLOKAI																	
Station	Index No.	Division No.	DISTRICT	Drainage	Latitude	Longitude	Elevation	Temp.	Precip.	Evap.	Months opened or closed during yr.	Refer to tables	Station	Index No.	Division No.	DISTRICT	Drainage	Latitude	Longitude	Elevation	Temp.	Precip.	Evap.	Months opened or closed during yr.	Refer to tables		
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57 159 32	1410						C	PUDOHOKU RANCH 542.1	8549	01	HOLOKAI	1	21 09 156 44	700	10					2	C	
ANAHOLA 1114	0145	01	KAWAHAU	2	22 08 159 18	180		42				C	WAIKOLU 540	9404	01	HOLOKAI	1	21 08 156 55	3550	8					2	C	
BYFOESWOOD STA 985	0240	02	KOLOA	2	21 56 159 32	720		63				C															
EAST LAHAI 934	0556	01	KAWAHAU	2	21 55 159 30	400		71				C															
EWE 3 RESERVOIR 1094.1	0465	02	KAWAHAU	2	22 06 159 22	275						C	KANEPU 690	3130	01	LAHAINA	1	20 52 157 00	1650	18					2	C	
LEKELE 927	0470	02	KOLOA	2	21 54 159 35	163		72				C	KANALAPU HARBOUR 658	3461	01	LAHAINA	1	20 47 157 00	30	10					2	C	
MAHOLA 1110	0935	01	KAWAHAU	2	22 05 159 20	193		71				C	LANAI CITY 72	0780	01	LAHAINA	1	20 54 156 55	1620	39	18				1	2	C
HALEMANAHO 1006	1038	02	LIHUE	2	21 58 159 28	490		41				C	LANAIHALE 684	5301	01	LAHAINA	1	20 49 156 55	1300	10					2	C	
HANALEI TUNNEL 1053	1170	01	KAWAHAU	2	22 05 159 28	1218						C	MANANA 694	5704	01	LAHAINA	1	20 52 156 55	1430	18					2	C	
MUKIPO 945	2191	01	MAHEA	2	21 59 159 41	800		32				C	MAHAUEA 678	6012	01	LAHAINA	1	20 48 156 55	1150	10					2	C	
ILILILU INTAKE 1050	2222	02	LIHUE	2	22 02 159 28	1055		38				C	WAIKAEKUA 685	9021	01	LAHAINA	1	20 47 156 52	2040	18					2	C	
INTAKE WATINHA PC 1086A	2227	01	HANALEI	2	22 09 159 34	990						C															
KANAHULULU INTAKE 1075	3099	03	MAHEA	2	22 08 159 40	3600		18				C	AWAHI-252	0175	02	HANA	2	20 37 156 20	2050	10					2	C	
KANAHUA RESERVOIR 1092	3104	01	KAWAHAU	2	22 08 159 23	830		10				C	FIELD 46 474	0541	04	LAHAINA	4	20 59 156 38	1030						2	C	
KAPPA STARLES 1104	3159	01	KAWAHAU	2	22 05 159 20	175		30				C	HALLAU 477	0592	02	MAKAWAO	2	20 45 156 30	2980						2	C	
KEALIA 1112	3982	01	KAWAHAU	2	22 06 159 19	9		73				C	HALEKALA 8 E 5 434	0995	01	MAKAWAO	1	20 51 156 18	2100	51					2	C	
KEKANA 944	4272	03	MAHEA	2	21 58 159 43	9		78				C	HALEKALA RANCH 432	0999	01	MAKAWAO	1	20 50 156 19	1850	81					2	C	
KILAUEA 1134	4561	01	HANALEI	2	22 13 159 25	3117		67				C	HALEKALA 85 338	1004	02	MAKAWAO	2	20 48 156 13	6930	27	34				1	2	C
KILAUEA FIELD 17 1135	4566	01	HANALEI	2	22 11 159 24	415		42				C	HALEKALA SUMMIT 338.4	1008	02	MAKAWAO	2	20 43 156 16	9960	12					1	2	C
KILAUEA POINT 1133	4566	01	HANALEI	2	22 14 159 24	180		21				C	HALEKALA 492.2	1016	02	MAKAWAO	1	20 55 156 17	9960	10					AUG		
													HALEKALA 423	1016	02	MAKAWAO	1	20 52 156 17	10070						2	C	
													HAKAUAPOKU 485	1086	01	MAKAWAO	1	20 55 156 21	320	89					2	C	
KITANO 1037.1	4650	03	MAHEA	2	22 02 159 41	2150						C															
KOLO 1039	4735	03	MAHEA	2	22 04 159 46	36		36				C	HANA 354	1122	01	HANA	1	20 45 155 59	120						2	C	
KOLOA 936	4742	02	KOLOA	2	21 58 159 28	240		88				C	HANA AIRPORT 355	1125	01	HANA	1	20 48 156 01	61	22					1	2	C
KOLOA MAUKA 994	4750	02	KOLOA	2	21 58 159 29	640		68				C	HANAHULI 281	1148	01	HANA	1	20 41 156 01	325	24					2	C	
KOLOA RES 1137	4756	01	KAWAHAU	2	22 11 159 23	650		39				C	HOLUA 2481N 259.5	1204	02	MAKAWAO	2	20 52 156 13	7100						2	C	
KUKULUA 945	4900	02	KOLOA	2	22 14 159 30	100		70				C	HONOKOHU 480	1482	04	LAHAINA	4	20 58 156 30	870	8					2	C	
LIHUE VARIETY STA	5360	02	LIHUE	2	22 01 159 23	375		10				C	HONOKOHU 493	1487	04	LAHAINA	4	21 00 156 39	135	45					2	C	
LIHUE 1020	5575	02	LIHUE	2	21 59 159 22	207		68				C	HONOKOHU 493.4	1487	04	LAHAINA	4	21 00 156 39	135	45					2	C	
LIHUE WSD 1020.1 AP	5580	01	LIHUE	2	21 59 159 22	207		68				C	HONOKOHU 493.4	1487	04	LAHAINA	4	21 00 156 39	135	45					2	C	
MAKAHUEA POINT 940.1	5785	02	KOLOA	2	21 52 159 27	52		15				C	HONOKOHU 493.4	1487	04	LAHAINA	4	21 00 156 39	135	45					2	C	
													MAKAWAO 341	1935	01	MAKAWAO	1	20 47 156 14	6280	37					2	C	
													TAU NEEDLE 387.2	2208	03	WAILUKU	3	20 53 156 33	1000	8	5				2	C	
													KANAPALI AIRPORT	2307	04	LAHAINA	4	20 56 156 32	8						1	2	C
MAKAWELI 965	5884	03	MAHEA	2	21 55 159 38	140		81				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
HANA 1026	6082	03	MAHEA	2	22 02 159 46	11		59				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
MHM 1001	6097	02	KOLOA	2	22 05 159 28	300						C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
MUNOHU UPR CROSS 1083	6103	03	MAHEA	2	22 05 159 28	300						C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
HOLUHA 1145	6529	01	KAWAHAU	2	22 11 159 20	330						C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
MOUNT WAIKAELE 1047	6565	03	MAHEA	2	22 04 159 30	546						C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
NIU RIDGE 1035	6580	03	MAHEA	2	22 02 159 27	150		27				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
N WAILUA DITCH 1051	6888	02	LIHUE	2	22 02 159 28	1110		45				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
N WAILUA RIVER 1055	6893	02	LIHUE	2	22 04 159 26	650						C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
PM WAINIHA 1115	8155	01	HANALEI	2	22 12 159 34	101		65				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
													KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
PRINCEVILLE RANCH 1117	8165	01	HANALEI	2	22 13 159 29	295		63				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
PUEHU RIDGE 1040	8203	01	HANALEI	2	22 01 159 30	103						C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
PUMI 1013	8217	02	LIHUE	2	22 01 159 24	929		37				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
RESERVOIR 6 1004	8573	02	LIHUE	2	22 01 159 27	420		59				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
STABLE CAMP 1055.1	8573	02	LIHUE	2	22 01 159 27	420		59				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
WAIHANA 930	8941	02	KOLOA	2	21 54 159 34	215		68				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
WAIHANA MOUNTAIN 990	8949	02	KOLOA	2	21 58 159 31	2100		72				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
WAIHAI LOWER 1054	8960	01	LIHUE	2	22 01 159 27	150		18				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
WAIHAI UPPER 1052	8960	02	LIHUE	2	22 01 159 28	780		40				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
WAIHANA 943	9253	03	MAHEA	2	21 59 159 43	10		78				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
													KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
WAILUA KAI 1065	9467	02	LIHUE	2	22 02 159 21	50		10				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
WAIHUA 947	9629	03	MAHEA	2	21 58 159 41	20		60				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
WEST LAHAI 931	9955	02	KOLOA	2	21 54 159 31	210		71				C	KANAKULUA MAUKA 482.3	2453	03	WAILUKU	3	20 50 156 33	650						2	C	
ISLAND OF O																											

STATION INDEX

CONTINUED

HAWAII
1971

STATION	Index No.	Division No.	DISTRICT	Drainage	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables	Station	Index No.	Division No.	DISTRICT	Drainage	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables
								Temp.	Precip.	Evap.	Month opened	Month closed										Temp.	Precip.	Evap.	Month opened	Month closed	
ISLAND OF HAWAII																											
MAUNAKA 2	A	5134	03 KAU	3	19 07 155 30	1760							1 2 3	PEPEKEO MAKAI 144	A	8000	02 S HILO	2	19 31 155 05		100						2
MAUNA LEO SLOPE DRG	A	5196	05 HAMAKUA	5	19 32 155 35	11146	16	17						2110HUA 89	A	8051	02 S HILO	2	19 44 155 10		1730						2
MIDDLE HONOLULU 68.1	A	5208	04 N KOHA	4	19 27 155 58	475	30							POHAKULOA 107	A	8063	02 HAMAKUA	2	19 45 155 32		6511						2 C
MIDDLE PLN 147.1	A	6270	01 N KOHALA	1	20 06 155 50	1380	6							PUAKO 95.1	A	8166	05 KOHALA	5	19 59 155 50		5						1 2 3
MOAULA 18	A	6407	03 KAU	3	19 11 155 30	600	53							PUU KIME 120	A	8393	01 HAMAKUA	1	19 54 155 24		7750						2
MOUNTAIN VIEW 91	A	6552	02 PUNA	2	19 33 155 07	1530	35	72						PUU LAU 102.1	A	8452	05 HAMAKUA	5	19 50 155 36		7440						2
NARAHU 14	A	6588	03 KAU	3	19 04 155 35	673	18	65						PUU LEHUA 73	A	8460	04 N KOHA	4	19 34 155 49		4880						2
NAP. OPU 28	A	6697	04 S KOHA	4	19 28 155 55	395	32							PUU MALL 113	A	8515	01 HAMAKUA	1	19 55 155 26		6960						2
NARHI FOREST 38.6	A	6731	02 PUNA	2	19 19 155 08	1400	7							PUUKUMU 167	A	8548	06 N KOHALA	6	20 12 155 50		1800						HAR 2
NIHUI 179	A	6806	01 N KOHALA	1	20 14 155 45	75	87					JAN		PUU OO 82	A	8550	02 S HILO	2	19 44 155 23		6340						2 C
ODKALA 223	A	7131	02 N HILO	2	20 01 155 17	430	52	82					1 2 3	PUU WAAHAA 94.1	A	8555	05 N KOHA	5	19 47 155 51		2320						2 C
ORIHAMA 2 24.1	A	7166	05 S KOHA	5	19 16 155 33	1270	15	16					1 2 3	SADOLE ROAD 1 84	A	8570	02 S HILO	2	19 42 155 12		2340						2
ORCHID LAND EST 91.5	A	7185	02 PUNA	2	19 34 155 00	445	10							SOUTH POINT CORRAL 3	A	8675	03 KAU	3	18 55 155 41		500						2 C
PARAHU 217	A	7204	01 HAMAKUA	1	20 05 155 26	415	83							UMUKOA 118	A	8780	01 HAMAKUA	1	19 59 155 23		3420						2
PARAU 221	A	7312	01 HAMAKUA	1	20 03 155 22	600	70							UPOLU POINT USCG 159.2	A	8830	01 N KOHALA	1	20 15 155 33		61						1 2 3
PAHALA 21	A	7421	03 KAU	3	19 12 155 29	870	63	81					1 2 3	WAIKANE SCJ 89.2	A	9025	02 S HILO	2	19 40 155 08		1050						2 C
PAHOA 55	A	7457	02 PUNA	2	19 30 154 57	870	63							WAIKANDOU 178.6	A	9350	01 N KOHALA	1	20 08 155 47		3830						2
PAHOA 37	A	7643	03 KAU	3	19 22 155 28	5000	44							WAIKANE KOHALA	A	9554	05 S KOHALA	5	20 00 155 40		2665						17
PAPAIAKI 144.1	A	7711	02 S HILO	2	19 47 155 06	200	74																				
PAPAIAKI MAUNA 140.1	A	7721	02 S HILO	2	19 47 155 06	1270	47																				

I DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote. Following the Evaporation and Wind table, Max and Min values in the Evaporation and Wind table are monthly averages of daily extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 8-8 inches above the pan.

NORMALS for all stations are climatological normals based on the period 1931-1960. "DEP" in Table 4 refers to departures from long-term means based on periods varying from 10 to 29 years which are used in place of normals.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

DELAYED DATA AND CORRECTIONS will be carried in the June and October issues of Climatological Data.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record.
- + Also on earlier date (dates) or months
- * Amount included in following measurement.
- A The letter "A" shown following station name, (Table 2 and Station Index): Amount carried in the monthly "Precipitation" column are for the period from last measurement of a preceding month through the last measurement of the current month. See Daily Precipitation Table of the monthly Climatological Data for the dates of measurement. Measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- E Amount is wholly or partially estimated.
- M One or more days record missing. If average value is entered, less than 10 days record is missing. See monthly Climatological Data for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month. V in annual column means total is for a two-year period.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- # Thermometers are generally exposed in a shelter located a few feet above and covered ground; however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, will be published in the October issue of Climatological Data.

Years of record as shown in the Station Index are approximate since gaps in the records may not have been considered in arriving at the totals shown.

The four-digit identification numbers in the Index are assigned on an island basis. There will be no duplication of numbers within an island.

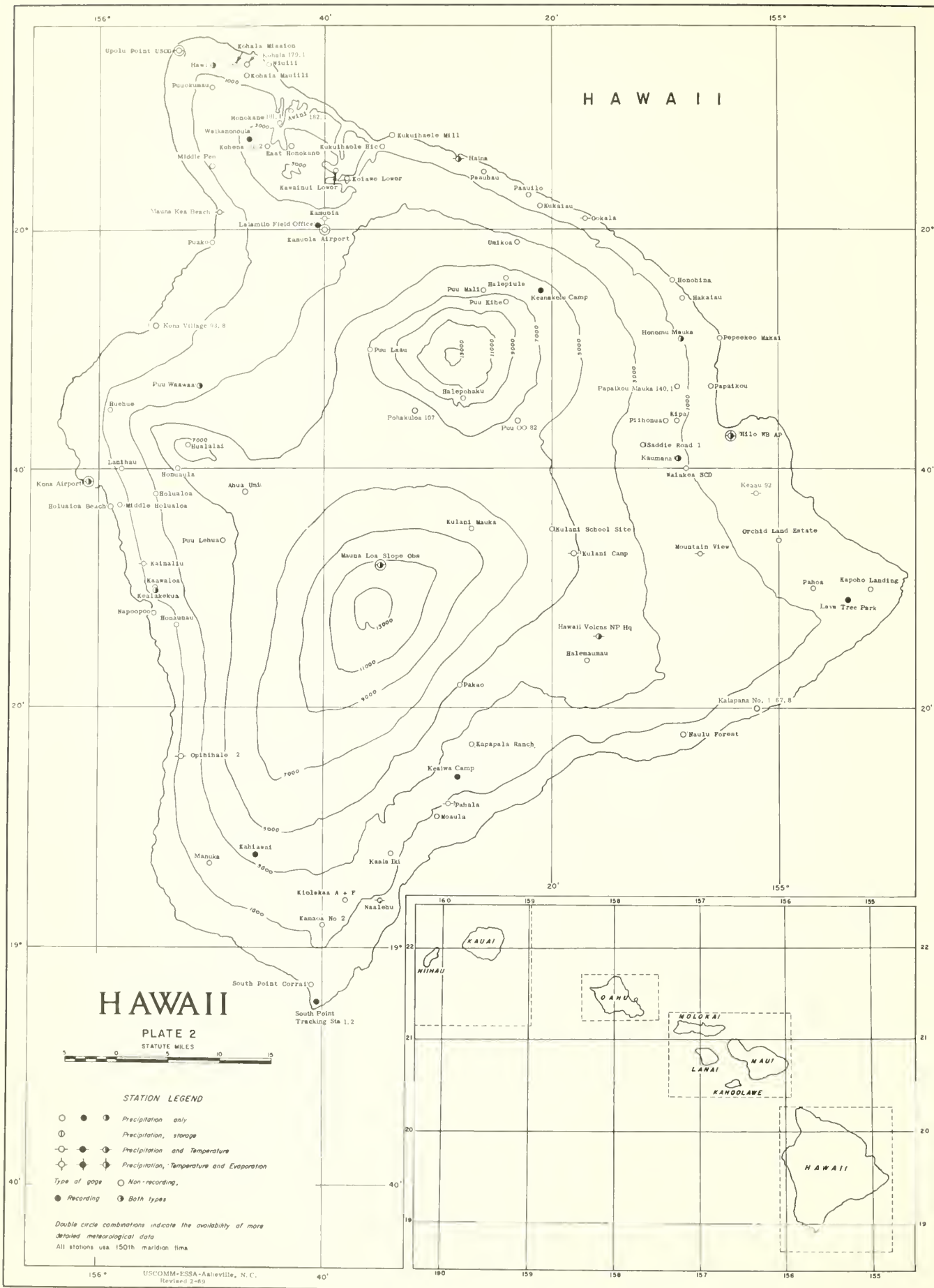
Information concerning the history of changes in location, elevations, exposures, etc., of substations through 1957 may be found in the publication "Substation History" for this State. That publication may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402, for 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, obtained as indicated above, price 15 cents.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittances and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center

USCOMM-NOAA-ASHEVILLE, N.C. 5/15/72-990



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NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

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CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
JANUARY 1972
Volume 68 No. 1

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature										Precipitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 3

Continued

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
JANUARY 1972

Continued

JANUARY 1972

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										30° or Above	32° or Below	32° or Below	0° or Below										
KEAOU 92	75.5	61.2	68.4	- 1.9	81	14	58	12+		0	0	0	0	14.84	2.28	6.10	25	.0	0		12	6	3
KEALAKEKUA 26.2	74.6	59.7	67.2		78	21+	53	31		0	0	0	0	5.44		1.28	30	.0	0		10	5	1
KONA (KAILUA) 68.3	80.9M	64.2M	72.6M		84	17+	60	31		0	0	0	0	2.71		1.19	25	.0	0				1
KUKUIHAELE HIC 199														3.14	- 2.99	.92	28	.0	0		7	1	0
KULANI CAMP 79	58.8	43.0	50.9		68	25	37	20+		0	0	0	0	8.45		2.80	25	.0	0		12	5	2
PAHALA 21		M	M	M	80	26	55	30+		0	0	0	0	12.18	4.15	5.13	25	.0	0				
POHAKULOA 107														1.89				.0	0				0
PUNAO 95.1					83	27+	58	31		0	0	0	0	1.08		.71	25	.0	0		3	1	0
PUNAWA 94.1														3.35	.12	.83	17	.0	0		6	3	0
UMIKOA 118														4.22	- 2.94	.80	28	.0	0		9	4	0
WAIKAE SC0 88.2														14.13		3.97	22	.0	0		15	7	3
ISLAND			65.8											6.79				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 88° ON THE 3D AT WAILUKU 386, MAUI

LOWEST TEMPERATURE: 24° ON THE 8TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 23.71 INCHES AT PAHOA 65, HAWAII

LEAST TOTAL PRECIPITATION: .35 INCH AT KAHULUI WSO 398 AP, MAUI

GREATEST ONE-DAY PRECIPITATION: 8.71 INCHES ON THE 25TH AT PAHOA 65, HAWAII

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY

The month's most significant weather event was the band of showers that spread southward through the island chain from a low pressure area to the north and brought their first substantial rains in many months to some of the dry fields and pastures of the central and southern islands.

Otherwise, the winter remained mild and unspectacular. Until mid-January, atmospheric pressure continued higher than normal over the Central Pacific, shunting away from the islands the cold fronts and other storms migrating eastward across the Pacific to the north. From the middle of the month on, however, the high pressure belt weakened and shifted southward, permitting fronts and storm tracks to move nearer the State.

As the month opened, large portions of the central and southern islands remained in the grip of a prolonged dry spell, which had browned pastures, depleted reservoirs, and adversely affected cattle. Many areas had had no appreciable rain for 8 months or more. At Ulupalakua Ranch, in Maui's Kula area, rainfall from May through December 1971 totalled 6.58 inches, only 35 percent of the average for that period, and was below its monthly mean in each of the 8 months. Molokai's Keonelele Pens had had no rain at all since May 1971, except for a little in December. On January 14, the Mayor of Maui County declared pasturelands in West Maui and on Haleakala's western slopes from Omaopio to Ulupalakua, where the drought had severely affected 12,500 head of cattle, a disaster area. However, in only little more than a week, rains were to bring some relief to the region.

On the 22d, rain from a broad band of showers and isolated thunderstorms associated with a weak cold front northwest of Kauai began over northern and eastern Kauai and windward Oahu. The formation of a low pressure center on the front provided the impetus for the latter to strengthen and advance through the island chain, while the development of low pressure aloft helped intensify the rainfall. After a brief respite, steady rain resumed on Kauai and Oahu and spread southward into Maui, Molokai, Lanai, and northern Hawaii Island.

Rainfall accumulations were not exceptional by Hawaiian standards, with peak 1-day totals of about 10 inches and 2-day totals near 20 inches (see Table I for a selection of stations). Intensities were also relatively light, so that no serious flash flooding or water damage appears to have occurred.

However, a number of minor flooding incidents were reported. By early on the 23d, the Wailua River, in eastern Kauai, had overtopped its banks and large rocks were observed on roads in the area. In southwestern Kauai, streets were flooded in Waimea town while Koloa, in the southern part of that island, reported mudslides.

On Oahu, on the 22d, a small stream in Ahuimanu (in the Kaneohe area) and Waimalu Stream in Pearl City overflowed and Lake Wilson in Wahtawa rose 2-1/2 feet. The following day, Kaelepulu Stream in Kailua, topped its banks, while over 50 people in Ewa (southwestern Oahu) were evacuated when Honouliuli Stream flowed over its banks at about 5 p.m. and washed into a few homes. In the Honolulu area, poorly drained roads in Waikiki and elsewhere flooded, water entered a home in Hawaii Kai after a drainage ditch overflowed, the Ala Wai Canal almost topped its banks and power outages occurred in several areas. Police received reports of water seeping into about 20 homes, chiefly in southeastern Oahu.

On Maui, except for minor flooding of Kahikiki Highway between Wailuku and Waihee, the steady rain was most welcome. The 11-million gallon reservoir at Olinda and the two 15-million gallon basins at Waikamoi were filled and the dry pastures moistened, although more rain would be needed to green the fields.

From the 27th through the 30th, high waves from a storm 900 miles northeast of the islands generated surf which occasionally reached heights of 20 feet along the northern shores of Kauai, Oahu, and Maui. During this period four drownings occurred, two of them attributable at least in part to the high waves. On the morning of the 29th, a man picking opihi (a small shellfish) on the rocks at Wahiawa, Kauai, was thrown into the sea by a wave and drowned. On the afternoon of the same day, two men drowned in attempting to swim to an anchored tanker about 2 miles away after rough seas capsized a 15-foot fishing boat 5 miles off Ewa Beach, Oahu. The next afternoon, at Kua Bay in North Kona, Hawaii Island, an opihi picker, attempting to swim to a waiting boat about 100 yards off the rocky shore, disappeared in the rough surf.

On the morning of the 29th, Mauna Loa and Mauna Kea were observed to be blanketed with fresh snow down to the 10,500-foot level, and on the last day of the month, cold arctic air streaming southward around the western periphery of the storm described above brought the islands their

SPECIAL WEATHER SUMMARY - Continued

coldest weather of the present winter, dropping minimum temperatures at Honolulu International Airport to 53° and at Kahului Airport to 50°, compared to their record lows of 52° and 48°, respectively.

Disappointingly, January's rains appear, with few exceptions, to have been least helpful where they were most needed. Thus, while most of Kauai and Oahu had near or above their January means, Maui remained dry nearly everywhere, with only a scattering of gages reporting above their monthly averages.

In fact, Maui's central valley, the western slopes

of Haleakala, including the Kula area, and southwestern West Maui, had well under half, and in places less than one-fourth, their average January rainfall.

Lanai and Molokai, which had also been rainfall-deficient for some time, fared somewhat better, but even there monthly totals ran below normal in most areas.

On Hawaii Island, the northeastern slopes continued dry. Southward to the Hilo coast most gages reported less than their January means, with some in Kohala and Hamakua showing less than half their averages for the month.

TABLE 1

Rainfall at Selected Stations, January 22-25, 1972

Location	Total Amount (Inches)	Time Began	Time Ended	Peak 1-Hour Intensity (Inches)
<u>KAUAI</u>				
Kilauea	2.60	22: 1 a.m.	22: 10 a.m.	1.15
Koloa	6.20	22: 9 p.m.	23: 6 p.m.	1.35
<u>OAHU</u>				
Honolulu Substn (Federal Bldg.)	5.44	23: 2:30 a.m.	23: 11 p.m.	0.83
Maunawili	9.50	23: 3 a.m.	24: 6 p.m.	0.85
PRI Wahiawa	7.65	23: 3 a.m.	24: 2 a.m.	1.25
Waiahole	5.20	21: Midnight	22: 1:30 p.m.	1.90
Waimanalo	10.30	23: 2 a.m.	24: 2 a.m.	2.00
Wilson Tunnel	19.11	21: Midnight	23: Midnight	--
<u>MOLOKAI</u>				
Maunaloa	3.85	23: 4 a.m.	24: 4 a.m.	1.00
<u>LANAI</u>				
Kanepuu	3.75	23: 12 noon	24: 6 a.m.	1.45
<u>MAUI</u>				
Hana	2.00	24: 6 a.m.	24: 2 p.m.	0.60
Iao Needle	7.20	23: 11 p.m.	24: 12 Noon	--
<u>HAWAII</u>				
Lava Tree Park	11.00	23: 6 p.m.	25: 8 a.m.	0.85

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National Weather Service Office
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Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
JANUARY 1972

Station	Total	Day of Month																																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
ISLAND OF KAUAI																																					
ANAHOLA 1114	A	8.94	*	*	.79		.04	.13		*	.25		.04	.03		*	.07				.03		*	* 7.24		.02	.06		.17	*	*	.15	*				
BRYCESWOOD STA 985	A	8.25	*	*		.96			.06	*	.53			.15	*	*	.34	.17	.01	.03		*	*	* 5.95						*	*		*				
EAST LAKE 934	A	9.44	*	*		.57	.03	.05	T	*	.27	.02		.16	*	*	.84	.58	.03	T		*	*	* 6.78						*	*		*				
ELEELE 927	A	6.83	*	*		.92	T	.01		*	.04			.12	*	*	.38	.07				*	*	* 5.28		T	.11		.01		*		*				
HALAULA 1110	A	8.48	*	*	.35	.05	.15			*	.20			.02	*	*	.03			.04		*	*	* 7.30				.20	.02	*	*		.12	*			
HALENAHAO 1006	A	9.17	*	*		.52	.08	.28		*	.24	.02	.16	.16	*	*	.51	.08	.08		.04	*	*	* 6.89		.02	.04	.05			*	*		*			
HUKIPO 945	A	7.08	.68														1.21						*	* 4.00	1.08		.07				*	*	.04	*			
11111111 INTAKE 1050	A	14.34	*	1.37	.71	.37	.15		.04	*	2.35	.05	.03	.23	.24	*	*	.77	1.03	.14	.11	*	*	* 4.00	1.08		.07				*	*	.04	*			
INTAKE WAINIHA PC 1086	A	9.55	*		.149	.05			*	*	.02	*		.03			*	*	.77	1.03	.14	.11	*	*	* 6.59		.03	.02	.03	.02	*	*		.06	*		
KANALOHULULU 1075	A	8.54	.05	.15	.02		.10	.05	.05				.02	.07	.02		.62		.15			1.53	*	*	* 2.82				.24	.98	1.16	.04	.15	.18	.50	*	
KANENA RESERVOIR 1092	A	12.05	*	*	.76	.24	.20	.57		*	.50			.05	.05	*	*	.70		.03	.10	*	*	* 7.45			.90		.15	*	*		.35	*			
KAPAA STABLES 1104	A	9.04	*	*	.56	.07	.05	.34		*	.03			.03		*	*	.03	.02	.04		*	*	* 7.85			.23		*	*		.05	*				
KEALIA 1112	A	9.39	*	*	.58	.04	.08	.25		*	.15			.03	.04	*	*	.03	.02	.04		*	*	* 7.85			.23		*	*		.05	*				
KEKAMA 944	A	6.66	.65	*		.33	.24	.10	.25	.02	*	*		.07		*	.85		.02					* 4.24	.64		.04			*	*		.07	*			
KILAUEA 1134	A	7.43	*	*		.33	.24	.10	.25	.02	*	*		.07		*	.85		.02					* 4.24	.64		.04			*	*		.07	*			
KILAUEA ETELO 17 1135	A	10.16	*	*		.96	.20	.09	.44	.03	*			.14	.08	.02	.01	*		.12	.01	.05	.02	.01	*	* 7.40		.30	.15		.01	*	*		.12	*	
KILAUEA POINT 1133	A	10.37	.33	.04		.12	.40	.07	.39	.09	.05						.03		.12	.01	.05	.02	.01	*	* 7.40		.30	.15		.01	*	*		.12	*		
KOLO 1033	A	4.47	.34														.18		.17	.20	.05	*	*	* 2.76	.53		.05	.10	.17		.02		.32	*			
KOLOA 936	A	11.40	*	*		.98	.05	.17	*	*	.21		.03	.12		*	.29	.08	.28	.04	.03	*	*	* 6.66		.05	.02	.06			*	*					
KOLOA MAUKA 994	A	9.74	*	*		1.01	.14	.04	.04	*	.71	.05	.12	.12	*	*	.17	.20	.05	*	*			* 6.66		.05	.02	.06			*	*					
KOLOKO RES 1137	A	11.00	*	*	2.07	.30	.15	.60	.03	*	.48	.14	.05	.01	*	*	.22	.02	.07	.05	.01	*	*	* 6.26		.08	.22		.02	*	*		.22	*			
KUKUIULA 935	A	9.55	*	*		.61	.01	.03	T	*	.12			.16	*	*	.22	.02	.07	.05	.01	*	*	* 6.26		.08	.22		.02	*	*		.22	*			
LTHUE VARIETY STA	A	8.69	.17	*	.01	.12	.15	.44	.27	*	.21			.10	*	*	.62	.01	.05		.08			* 4.87	1.32		.01	.02	.10		*	*		.02	*		
LTHUE 1020	A	6.61	*	*	.18	.01	.01	.41	.27	*	.03			.11	*	*	.08		.02					* 5.75					*	*			.01	*			
LTHUE WSO 1020.1 AP	/R	6.44	.02	T		.02	.26		.02	T	.01	T	.10	T	.02				T	T		T		.99	4.97		T	.03		T	T	T	T	T			
MAKAWENA POINT 940.1	A	8.51	.31			.02			.01					.40	.10	1.63				.01				* 3.60	2.41		.01	.01			*	*					
MAKAWELI 965	A	4.43							.04	.01				.05		.26		.08						* 3.60	.88	.01	.01	.14	.03			.20		.20	*		
MANA 1020	A	5.48	.51						.09		.21			.03	.26		.18		.07					* 3.60	.88	.01	.01	.14	.03			.20		.20	*		
MOHINI UPR CROSS 1083	A	8.93	.36						.27	.09				.09										* 3.60	.88	.01	.01	.14	.03			.20		.20	*		
MOLDAE 1145	A	10.56	*	*	1.44	.14	.02	.11	.03	*	.18	.10				*	.28			.05				* 7.85		.05	.18			*	*			.13	*		
MOUNT WAIALEALE 1047	R	-																	.31					1.42	5.20			.47	.39		.16	.08		.04	*		
NTU RIDGE 1035	A	5.77	.32											.10		.16								* 4.30			.25										
N WAILUA OITCH 1051	A	16.50	*	*	1.40	.60	.30	.30	.26	*	2.96	.20	.18	.26	.16	*		.70		.34	.70	.26	.16	.10	*	* 6.40		.16	.50		*	*		.26	*		
PH WAINIHA 1115	A	6.42	.43	.60	T	.12	.05	.83	.49	.02				.11	*	*	.28	T	.06	T				* 1.87	.65		.29	.19	T	.06	.15	.33		.26	*		
PRINCETVILLE RANCH 1117	A	5.13	*	*	.60	.21	.04	.51			.49	.15					.19							* 2.14			.28	.26			*	*		.26	*		
PUEHU RIDGE 1040	A	9.63	.75			.14	.15				.12			.15			.85		1.98					* 4.50	.73		.18							.20	*		
PUIHI 1013	A	8.52	*	*	.39	.04	.45	.02	*	*	.12			.19	*	*	.23	.03	.08	.02	.02	*	*	* 6.75		.03	.03	.08									
RESERVOIR B 1004	A	11.49	*	*	.89	.07	.22	.06	*	*	.21	.03	.11	.10	.02	*		.99	.07	.07	.03	*	*	* 8.05		.04	.04										
WAIHANA 930	A	7.19	*	*	.97	T			*	*	.05			.10	.02	*		.47	.02					* 5.36													
WAIHANA MOUNTAIN 990	A	10.13	*	*					*	*						*								*											10.13	*	
WAIHAI LOWER 1054	A	12.14	.15			.70	.20	.10	.04	.85	.54	.11	.08	.08			1.08		1.34	.05	.04	.02			5.06	1.47		.03	.06	.04		.02	.02	*			
WAIHAI UPPER 1052	A	13.87	.15			.70	.40	.25	1.45	.45	.32	.03	.03	.02	.02	.80	.70	1.80	.02	.03	.02				5.87	.79		.01	.03			.02	.01				
WAIHAI 943	A	5.05	.54			.01					.04			.04			.38		.01					* 3.37	.52		.04							.14	*		
WAILUA KAI 1065	A	8.80	*	*	.32	.02	.05	.38	.02	*	.05				*	*	.48		.15	.05	.04	*	*		* 7.55		.02	.07									
WAIHAE 947	A	6.17	.91																					* 3.50	1.18		.10										
WEST LAKE 931	A	7.71	*	*	*	.57	.01	.02	T	*	.10		.01	.12	*	*	.47	.25	.01						* 6.14		.01										
ISLAND OF OAHU																																					
BERETANIA PUMPING STA	A	7.84	.36		.01		.03	.24			.01	.03		.04	.34	*	.07				T			.68	1.76	4.50			.10	.05							
CAMPBELL IND PK 702.5	A	6.45	.05	T		.05			.04					.04	.34	*	.07							.38	.90	4.50											
CAMP 84 807	A	11.85	*	*	1.95	.05	.01	.04			.06	.18			.04		.07				.17	*	*	* 9.32				.01	.03		.02	*	*		.01	*	
CHURCH COLLEGE LAIE	A	5.97	.02	.02	.01	.01	.02	.05	.01	.02			.07		.42		.04			.02	.01	.02			* 3.04	1.48		.03	.02		.09	.04		.09	*		
COCONUT ISLAND 840.1	A	8.13	*	1.54	.02		.20		.04				.01	.08			.16	.12		.02				* 4.00	1.98	3.20		.11	.08	.04	.20						
EMA PLANTATION 741	A	6.34	*		.09										.49									* 5.76													
HELEMANO INTAKE 881	A	8.18	*	*	.05		.03		*	*				.04	*	*	.41	*				.22	*	*	* 8.54			* 7									

HAWAII
JANUARY 1972

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ALAPAPA 534	A	3.09																															
ALAPAPA 542	A	5.12																															
ALAPAPA 511	A	4.83																															
ALAPAPA 524	A	3.04																															
ALAPAPA RANCH 542.1	A	7.54																															
ALAPAPA 540	A	4.55																															
ISLAND OF LANAI																																	
ANAPAPA 690	A	3.34																															
ANAPAPA HARBOR 658	A	1.71																															
ANAI CITY 672	A	4.93																															
ANAIHALE 684	A	2.59																															
ANAHUA 694	A	3.53																															
ANAPAPA 676	A	4.41																															
ANAPAPA 685	A	6.10																															
ISLAND OF MAUI																																	
ANAPAPA 752	A	5.92																															
ANAPAPA 753	A	1.79																															
ANAPAPA 754	A	1.24																															
ANAPAPA 755	A	1.24																															
ANAPAPA 756	A	3.38																															
ANAPAPA 757	A	1.96																															
ANAPAPA 758	A	1.92																															
ANAPAPA 759	A	7.51																															
ANAPAPA 760	A	6.25																															
ANAPAPA 761	A	5.86																															

DAILY PRECIPITATION

Continued

HAWAII
JANUARY 1972

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KTPA 89.2	A	14.52	.03	.24	.25	1.75	T	.02	.54	2.16	.62	.03	.01	.01	.02	.53	.49	.22	.01	.10	.04	.03	.03	4.76	.83	.44	1.13	.01	T	.01	.02	.19	
KOMALA MAULILI 176	A	3.12	.	.	.	.06	.01	.05	.05	.	.23	.	.	.	.01	.02	.	.51	.03	.39	.02	.	.	.	.	.	.	.	.	.	.	.
KOMALA MISSION 175.1	A	4.06	.	.	.	.08	.	.	.01	.12	.02	.01	.	.	.	.01	.37	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KOIAHE LOWER 196	A	3.72	.	.	.	.	.	.	.98	.	.	.	.	.	.	.12	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KONA (KAILUA) 68.3	A	2.71	.	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.56	.06	.	.	.	.42	.	.	.35	1.19	.03	.	2.20	.	.45
KONA VILLAGE 93.8	A	1.95	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KUKAIUA 222	A	3.14	.02	T	.	.43	.01	.	.01	.51	.01	.01	.01	.	.	.25	.	T	.	.	.	.	.	.12	.58	1.00	.	.	.15	.10	.	.
KUKUIAEE MIC 199	A	3.14	.	.	.	.13	.	.	.05	.	.04	.	.	.	.	.09	.09	.	.	.	.	.02	.	.55	.25	.45	.10	.03	.93	.35	.10	.29
KUKUIAEE MILL 206	A	1.91	.	.	.	.02	.	.	.02	.	.	.	.	.	.	.03	.16	.	.	.	.	.10	.	.38	.03	.46	.04	.08	.92	.37	.26	.04
KULANI CAMP 79	A	8.45	.16	.55	.07	1.22	.	.05	.13	.57	.35	.05	.05	.05	.04	.35	.04	.04	.	.	.	.05	.	.75	.41	.25	2.80	.08	.08	.05	.	.33
KULANI MAUKA 76	A	2.30	.23	.	.30	.	.	.	.20	.05	.	.	.	.	.	.05	.10	.	.	.	.	.	.	.57	.30	.	.	.	.	.40	.	.
KULANI SCHOOL SITE 78	A	4.47	1.14	.	.	.	.	.	.	1.77	.	.	.10	.	.	.05	.10	.	.	.	.	.	.	.30	.57	.30	.	.	.	.50	.	.
LANIHAE 68.2	A	7.29	.	.07	.	.	.39	.20	.	.	.	.95	.	.	.	.04	.02	1.55	1.12	.44	.	.	.	.	.	.	.	.	.	.57	.	.
MAKAMALAU 193	A	1.77	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MANUKA 2	A	7.73	.	T	.	.20	.	.	T	.	.	.	2.60	.	.	.	.	2.40	.	.	.	.	.	.	.	.	.	.	.01	.	.	1.10
MAUNA LOA SLOPE DRS	A	1.93	.	.04	.06	.	.	.03	.	.	.	.	.	.	.40	.01	.	.01	.	.	.	.	.	.	.06	1.00	.	.	.	.03	.29	.
MIDDLE HOLUALOA 68.1	A	6.01	.	.	.	.	.60	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.80	.	.	.	.	.	.	.
MIDDLE PEN 147.1	A	2.44	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MOAULA 18	A	10.50	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.70	.	.	.	.	.	.	.
MOUNTAIN VIEW 91	A	13.64	.05	.	.46	.67	.01	.02	.51	1.40	.23	.02	.01	.02	.05	.44	.	.19	.18	.14	.05	.	.08	2.75	1.10	.74	2.99	1.16	.01	.03	.	10.50	
NAALEHU 14	A	10.22	.	.	.	.62	T	.12	T	.	.	.16	T	.	.	.95	.	.	.69	.05	T	T	.03	.	.	4.10	2.90	.01	T	.13	.	.46
NAPPODD 28	A	2.77	.	.	.31	.	.	.	.	.	.	.48	.	.	.	.	.	.	.26	.	.	.	.	.	.	.	.	.	.	.	.	1.63
NIULI 179	A	3.04	.	.	.	.03	.	.	.	.	.	.11	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.17
ODKALA 223	A	7.84	.	.01	.11	.58	.01	.15	1.18	.06	.	.02	.11	.07	.01	.67	.	1.41	T	.	.	.	.	2.38	.	.23	.77	.03	.26	.95	.	.17
OPIMIALE 2 24.1	A	5.03	.04	.	.24	.33	T	.07	.03	.02	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.08	.51	.13	.05	.88	.51	.08	.24
ORCHID LAND EST 91.5	A	19.56	.	.	.	.	.	4.92	.	.	.	.	.	.	2.99	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.06
PAAHUA 217	A	2.15	.02	.	.	.06	.	.08	.14	.	.	.01	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PAAHUA 221	A	3.33	.01	.	.	.24	T	.	.01	.36	.02	.	.01	.01	.01	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PAHALA 21	A	12.18	.	.	.	.01	.	.34	.	.	.	.10	.	.	.	1.74	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PAMOLA 65	A	23.71	.10	.	.79	1.13	.04	.37	2.24	.37	.03	.09	.	.14	.17	.	.	.08	.07	.17	.04	.07	.39	3.03	1.21	.81	6.71	3.14	.05	.15	.	.32	
PAKAO 37	A	11.37	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PAPAIKOU 144.1	A	10.42	.10	.01	.20	.72	.06	.41	3.33	.58	.06	.07	.	.	.	.26	.57	.04	.	.	.	.	.	.	.	.	.	.	.	.	.	11.37
PAPAIKOU MAUKA 140.1	A	13.78	.17	.02	.08	1.86	.01	1.09	2.60	.63	.02	T	.02	.	.	.06	.40	.32	.09	.10	.01	.06	.01	4.00	.50	.35	.97	.17	.34	.16	.09	1.00	
PEPEEKED MAKAI 144	A	10.58	.02	.	.02	.44	.01	.91	4.45	.36	.15	.	.	.	.	.31	.13	.30	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PIMOHUA 89	A	21.60	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
POMAHULA 107	A	1.89	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUAKO 95.1	A	1.08	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.04	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUU KIIHE 120	A	2.54	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.13	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUU LAU 102.1	A	3.10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUU LEHUA 73	A	2.00	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUU MALI 113	A	4.63	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUU ODO 82	A	3.35	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUU WAAHA 94.1	A	3.25	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SADDLE ROAD 1 84	A	35.00	.	.	.	.	.	24.00	.	.	.	.01	T	.	.	.	.	.68	.18	.83	.05	.	.	.	.	.	.	.	.	.	.	.
SOUTH POINT CORRAL 3	A	5.25	.	.20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
UMUKOA 118	A	4.22	.18	.	.	.27	.	.03	.	.	.	.08	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
UPOLU POINT USCG 159.2	A	13.33	.	T	.	.01	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
WAIKAE SCD 88.2	A	14.13	.13	.03	.18	.93	.01	.45	.99	.76	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover	sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
							02	08	14	20										
HILO WSO 87 AP	15	1.2	6.4	19	SE	23	90	87	72	88	3	11	6	2	1	2	25	27	7.6	
HONOLULU WSFO 703 AP	4	4.9	11.0	32	E	23	84	83	62	74	9	4	1	0	0	1	15	61	6.1	
KAHULUI WSO 398 AP	5	5.5	9.3	29	E	07	86	88	58	78	3	5	1	0	0	0	9	67	5.2	
LIHUE WSO 1020.1 AP	5	3.0	8.5	24	NE	07	85	82	70	80	11	6	2	1	0	1	21	47	6.6	

DAILY TEMPERATURES

HAWAII
JANUARY 1972

Station	Day of Month																																	Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
• • •																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	61 45	61 46	67 44	64 44	59 50	59 44	63 42	64 49	65 50	65 47	64 43	60 44	67 49	65 46	67 51	68 52	63 46	65 48	70 48	67 40	56 39	55 45	62 48	60 52	58 52	58 51	57 51	55 49	55 49	54 46	55 48	61.6 47.0	
KILAUEA POINT 1133	MAX MIN	75 67	77 72	75 67	76 68	71 65	76 68	75 67	76 70	76 67	77 70	74 67	79 70	79 67	82 72	86 67	82 69	74 68	78 70	75 67	79 68	74 66	78 66	74 67	78 66	77 69	74 66	77 67	74 66	72 66	73 61	74 61	76.4 67.5	
LIHUE WSO 1020.1 AP	MAX MIN	76 64	77 64	79 70	77 69	73 65	75 62	76 63	77 70	77 71	76 70	76 63	78 60	79 65	80 62	79 67	79 66	79 65	78 67	77 70	77 61	78 60	78 63	73 67	78 61	77 62	77 63	73 66	72 64	72 64	75 57	73 56	76.5 64.3	
MAKAHUEA POINT 940.1	MAX MIN	81 64	80 70	77 71	82 68	79 66	68 62	76 64	78 64	75 70	76 70	80 67	78 67	72 68	70 68	81 68	83 64	83 64	83 69	77 64	80 60	81 50	78 66	80 66	73 65	76 67	80 64	79 65	74 65	74 56	69 64	74 61	77.3 65.4	
MANA 1026	MAX MIN	80 60	81 63	81 60	81 64	80 59	80 62	81 58	80 60	80 57	80 60	80 58	81 59	80 60	81 58	80 65	81 64	81 63	81 64	81 60	81 58	81 62	83 60	80 60	81 64	78 64	77 65	77 65	75 61	80 62	81 59	73 58	79.9 61.0	
NIU RIDGE 1035	MAX MIN	78 58	79 58	79 59	78 60	80 58	74 58	76 57	78 57	79 58	80 54	77 57	76 58	79 60	78 59	79 60	80 60	80 61	79 60	80 61	79 59	70 60	70 55	69 53	70 54	69 53	72 52	70 50	70 56	69 56	68 55	75.3 57.4		
WAIHAI LOWER 1054	MAX MIN	73 59	74 59	74 63	74 63	67 59	70 56	70 59	70 59	73 59	72 60	71 58	72 55	75 60	76 57	76 61	76 61	77 59	73 61	74 65	71 53	71 53	73 64	73 66	74 58	74 56	74 61	71 57	74 53	70 50	69 50	72.8 58.6		
• • •																																		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN				81 56	79 57	79 57	78 57			78 56	78 54	78 56	78 58	81 59		81 59	82 59	79 60	78 55	79 54			80 55	78 55	80 55	80 55	72 60				75 51		
HONOLULU WSO 703 AP	MAX MIN	78 64	82 61	82 66	80 67	78 61	79 62	78 68	78 68	78 68	78 65	80 65	77 60	78 61	79 64	75 66	78 63	82 64	78 64	82 67	78 58	82 59	77 66	73 67	76 66	76 60	72 60	72 64	75 62	73 61	75 56	72 53	77.7 63.1	
HONOLULU SUBSTA 704	MAX MIN	78 66	83 66	79 69	76 69	75 67	75 66	76 67	75 68	75 68	75 67	77 67	77 67	78 68	76 69	75 69	77 67	79 68	76 69	74 69	75 67	77 67	76 66	72 66	78 67	77 66	72 66	71 64	71 64	74 61	74 61	75.8 66.8		
KAHUKU 912	MAX MIN																																	
KANEOHE MAUKA 781	MAX MIN	76 62	78 64	78 65	76 68	77 63	75 61	74 64	73 69	75 65	76 66	75 64	75 62	78 63	80 67	79 66	77 64	80 65	79 66	78 67	74 61	78 62	76 61	75 65	72 66	78 65	79 63	78 64	70 66	74 63	71 60	75 59	76.1 64.1	
LUALUAEI 804	MAX MIN	81 64	82 62	82 60	82 72	80 64	78 63	80 70	79 68	80 68	80 64	80 63	81 61	81 63			82 63	81 64	81 69	75 59	81 61	79 65	82 66	79 65	82 60	79 61	77 60	73 60	78 65	76 61	76 58	79.1 63.2		
MAKAPUU POINT 724	MAX MIN	75 67	74 66	75 66	72 66	75 66	73 62	72 68	70 67	72 67	72 67	74 65	72 66	76 68	74 66	75 66	78 63	75 64	75 68	74 64	76 63	76 68	78 69	77 67	78 68	77 67	78 63	68 63	65 62	68 62	70 59	73.6 65.6		
OPAEULA 870	MAX MIN	77 61	79 60	76 69	75 62	73 59	72 58	72 60	73 61	74 59	81 55	75 55	75 58	80 59	80 60	80 60	80 56	82 55	80 55	78 58	82 55	82 51	74 54	82 59	80 59	72 55	80 57	75 55	75 58	70 53	70 49	76.2 57.4		
PRI WAHIAWA 820.2	MAX MIN	76 58	78 58	83 56	79 61	78 59	79 59	76 57	74 61	76 57	78 57	78 55	81 55	82 56	79 58	71 61	82 58	82 58	78 59	76 54	82 53	78 54	78 53	78 54	79 58	78 58	79 62	70 50	78 58	74 54	71 52	77.2 57.5		
WAIALEE 896.3	MAX MIN	76 62	76 62	76 62	79 63	75 66	78 64	76 64	75 66	75 66	76 64	77 61	77 62	79 61	78 63	78 61	79 65	80 62	80 62	74 64	79 63	78 62	75 63	72 64	76 64	77 64	72 62	74 62	73 62	74 62	76.1 63.2			
WAIALUA 847	MAX MIN	76 56	76 58	80 56	80 59	79 57	76 57	77 54	75 54	75 56	77 54	79 53	80 58	77 58	77 58	72 61	78 58	82 58	81 58	76 54	79 55	79 55	78 61	68 56	68 56	79 58	80 58	79 59	70 59	71 58	71 56	76.7 57.3		
WAIKIKI 717.2	MAX MIN	80 67	82 61	84 66	83 70	79 61	79 62	79 65	79 68	79 66	80 62	80 61	80 62	81 63	83 62	83 66	81 62	83 62	83 67	80 64	83 59	81 61	80 68	80 68	81 60	80 68	74 62	75 61	74 61	79 54	79 52	79.6 62.1		
WAIMANALO EXP FARM	MAX MIN	79 61	79 63	80 69	78 70	77 65	78 65	73 64	71 65	76 67	77 67	76 67	77 62	80 63	83 64	80 66	78 64	80 65	80 66	76 69	79 61	77 60	72 65	72 65	80 60	80 60	78 64	75 62	74 62	74 58	75 54	77.3 63.6		
• • •																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	76 60	77 64	78 66	79 66	75 62	73 65	74 67	75 65	75 68	74 64	76 63	78 59	79 59	78 66	79 65	77 68	76 61	77 61	76 66	75 60	79 60	78 65	77 69	70 67	77 63	75 66	68 65	70 64	70 65	72 58	75.3 63.9		
• • •																																		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN			76 57	72 61	70 60	69 60	69 58			72 57	70 55	70 55	77 55	77 57		74 59	73 59	73 56	75 54				75 56	69 61	74 57	73 56	60 59				68 52		
• • •																																		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	53 37	53 37	56 38	59 44	60 36	55 37	52 36	57 37	54 33	58 34	52 34	53 35	56 37	61 41	59 43	59 43	61 43	60 44	59 46	61 34	59 36	57 38	55 38	55 45	54 47	60 38	56 37	55 41	57 37	52 38	49 34	56.4 38.6	
HALEAKALA SUMMIT 338.4	MAX MIN			51 37	51 37	47 34	45 34	45 29			46 30	42 34	48 40	51 40	52 39		53 36	47 37	45 41	52 42	56 39	45 42			45 36	44 38	49 41	50 40				45 36		
HANA AIRPORT 355	MAX MIN	79 64	80 60	78 55	78 65	77 54	76 56	75 63	77 67	77 58	80 60	77 58	79 58	79 64	80 66	79 65	78 65	79 63	79 65	79 61	74 61	79 65	76 63	76 65	76 66	76 60	74 62	72 60	69 58	71 57	74 51	76.6 61.3		
KAANAPALI AIRPORT	MAX MIN	78 60	78 63	80 63	81 64	78 61	75 59	78 64	79 61	78 61	77 61	78 53	79 58	79 66	78 66	80 61	80 60	79 61	79 61	76 57		79 61	77 65	76 66	75 63	77 60	77 63	70 64	72 63	71 58	74 58	77.2 62.1		
KAHULUI WSO 398 AP	MAX MIN	80 57	83 60	84 61	81 68	78 54	79 58	81 61	79 59	80 54	80 53	84 54	83 58	80 62	84 62	83 60	83 60	82 57	82 58	83 53	80 50	83 60	80 61	79 68	83 63	80 57	75 64	75 61	73 59	78 59	77 55	80.3 58.7		
KAILUA 446	MAX MIN	71 59	75 60	75 60	73 63	73 68	72 59	72 62	69 60	72 60	72 60	72 63	75 64	76 63	77 63	77 61	74 60	73 61	72 61	73 61	72 57	70 60	71 62	72 62	73 63	77 59	77 59	69 59	67 59	71 55	71 55	72.8 60.5		
KEAWAKAPU BEACH 260.2	MAX MIN	82 58	80 60	84 62	83 62	84 55	79 57	85 57	82 55	82 55	82 55	82 55	83																					

Continued

DAILY TEMPERATURES

HAWAII
JANUARY 1972

Station		Day of Month																															JANUARY	1972
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
KULA SANATORIUM 267	MAX MIN	73 53	71 54	70 55	72 56	72 50	68 51	68 53	70 55	68 50	68 48	69 49	68 51	71 53	73 57	72 58	72 57	68 55	69 54	69 49	68 50	72 52	68 53	71 56	68 58	72 59	68 54	68 55	66 55	64 52	62 51	66 48	69.2 53.3	
LAHAINA 361	MAX MIN	84 62	83 64	85 65	84 62	82 62	83 62	83 64	82 64	81 61	82 60	81 62	84 59	84 60	85 63	85 64	85 64	82 63	81 62	80 61	81 59	81 58	80 64	78 66	76 66	82 68	82 63	78 63	75 62	78 60	80 57	77 54	81.4 62.4	
WAILUKU 386	MAX MIN			88 57	84 56	85 50	83 50	83 51	85 54		84 53	84 52	84 50	87 52	86 52		81 58	78 63	76 66	77 60	79 59				80 63	76 67	80 62	76 63	73 62		73 54	81.0 57.0		
* * *																																		
ISLAND OF HAWAII																																		
HAINA 214	MAX MIN	79 60	79 62	78 65	77 64	74 59	75 60	76 62	74 62	72 59	75 59	75 60	77 60	81 60	78 63	78 63	80 63	77 60	76 61	76 64	75 60	76 59	75 61	75 61	78 63	75 64	73 65	77 63	75 62	70 58	71 61	68 61	75.5 61.5	
HAWAII VOLCNS NP HO 54	MAX MIN	63 48	67 47	63 50	60 45	64 47	62 48	59 50	60 45	65 46	62 46	63 46	66 46	70 52	67 55	66 55	67 50	65 47	61 49	63 46	65 48	65 47	60 52	65 54	63 58	63 57	66 50	62 52	57 53	58 45	55 45	63.1 49.5		
HILLO WSD 87 AP	MAX MIN	80 60	81 61	79 66	77 61	78 58	78 60	70 62	73 63	77 57	78 60	77 59	80 59	83 63	80 68	81 70	81 63	78 61	79 61	80 59	81 62	79 63	74 65	80 69	75 68	76 69	78 68	73 60	73 61	77 57	77 60	77 62	77.7 62.5	
KAINALIU 73.2	MAX MIN	75 57	74 58	76 60	76 61	72 59	68 58	73 57	74 60	74 58	72 60	73 59	75 59	76 63	76 68	78 70	74 63	72 61	73 61	74 58	76 57	77 59	73 63	75 65	76 69	75 68	73 60	74 62	71 60	72 57	72 52	73.8 58.7		
KAMUELA 192.2	MAX MIN	74 50	75 45	76 48	74 55	65 45	70 46	69 59	70 54	72 50	67 53	68 48	72 50	75 44	73 56	73 54	75 49	74 52	73 52	69 54	69 45	75 47	74 57	75 55	69 59	69 52	71 52	67 53	65 49	63 48	67 48	71.0 50.6		
KEAAU 92	MAX MIN	75 60	79 59	79 59	76 64	75 58	76 58	76 59	69 61	72 58	74 59	74 58	76 58	76 60	81 62	80 66	79 65	78 61	76 62	75 60	76 60	75 60	76 64	77 68	75 67	76 64	77 62	73 61	72 57	75 59	75.5 61.2			
KEALAKEKUA 26.2	MAX MIN	76 57	75 59	75 62	78 63	72 61	71 59	74 58	76 58	75 59	73 57	74 58	74 57	76 60	77 63	77 64	73 61	73 62	73 58	76 60	76 57	78 60	77 60	77 64	76 65	74 65	76 62	74 62	71 56	67 53	72 53	74.6 59.7		
KOHALA MISSION 175.1	MAX MIN	78 61	78 62	78 63	78 66	75 60	75 60	74 61	74 63	72 62	75 60	75 60	75 59	77 58	78 66	72 63	80 63	78 62	76 62	75 65	75 62	74 59	75 63	76 62	81 66	75 61	77 61	73 62	71 56	65 60	72 60	75.3 61.7		
KONA (KAILUA) 68.3	MAX MIN			84 64	81 69	80 68	80 67	82 65			81 61	80 61	79 61	82 63	83 66		84 66	80 64	80 65	82 63	82 63			82 64	78 69	81 62	83 61	78 65	79 66	79 60	80.9 64.2			
KULANI CAMP 79	MAX MIN	59 41	60 42	63 48	49 48	54 39	59 42	55 41	56 44	54 40	47 40	55 38	56 42	57 38	59 40	59 48	66 47	65 44	62 42	59 37	63 40	62 42	62 45	63 48	65 46	60 45	60 45	50 47	60 43	56 43	58 45	58.8 43.0		
MAUNA LOA SLOPE OBS	MAX MIN	37 26	43 26	46 32	45 30	47 31	43 28	43 25	40 24	46 26	46 30	48 34	48 34	45 32	43 30	43 33	46 29	46 32	46 32	52 34	51 35	46 27	46 30	44 36	49 35	52 37	49 35	41 31	39 28	39 28	44 28	45.0 30.7		
MOUNTAIN VIEW 91	MAX MIN	76 55	76 55	76 55	76 55	72 51	72 51	72 54	68 50	68 50	68 51	74 51	74 51	78 54	75 56	75 55	75 55	70 54	71 55	73 55	72 56	72 56	72 58	71 64	69 56	74 57	71 59	68 53	68 53	72.2 54.5				
NAALEHU 14	MAX MIN	71 65	76 61	76 61	76 61	72 60	74 61	75 63	75 63	75 59	73 59	74 60	74 60	79 63	75 65	75 65	75 62	75 62	74 62	75 62	75 63	74 64	75 64	74 64	73 64	85 65	77 62	77 64	71 61	71 58	75.1 62.9			
UOKALA 223	MAX MIN	78 60	78 60	77 60	72 64	74 60	75 60	76 60	70 62	72 60	75 62	76 58	76 59	77 64	76 63	77 64	78 63	79 64	74 63	76 59	73 60	76 60	75 60	76 65	68 64	70 62	72 64	72 61	67 58	67 58	69 58	74.0 61.0		
OPIHIHALE 2 24.1	MAX MIN	72 55	74 55	75 59	70 60	69 58	72 64	72 54	73 55	71 55	71 52	72 52	74 55	73 57	76 59	72 61	72 60	71 56	72 57	73 54	74 55	73 55	75 57	73 56	73 56	79 57	73 56	73 55	72 55	65 55	72 51	71 51	72.5 56.3	
PAHALA 21	MAX MIN				78 58	72 55	76 56	73 58			75 56	75 56	76 56	73 57	79 61		76 58	75 59	76 56	78 58				76 59	80 65	77 64	75 61	75 61	69 55	67 55	67 57			
PUAKO 95.1	MAX MIN	81 63	80 62	82 65	83 66	81 63	80 64	82 66	81 67	81 65	81 63	82 61	79 61	83 62	79 66	82 66	80 65	82 65	81 64	82 62	80 61	80 65	79 62	82 65	77 68	83 61	79 66	76 65	72 60	79 58	80.3 63.7			
UPOLU POINT USCG 159.2	MAX MIN	81 55	80 65	81 67	80 67	78 63	78 62	77 64	77 63	77 63	77 62	78 66	79 66	80 66	78 66	82 66	79 65	75 64	77 62	73 63	79 67	79 68	80 70	80 69	82 69	82 68	82 65	81 67	74 63	69 61	76 63	78.3 64.8		

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP	.15	.13	.13	.16	.14	.04	.21	.27	.26	.25	.28	.19	.04	.06	.12	.01	.18	.27	.21	.25	.21	.36	-	-	.36	.18	.23	.17	.15	.10	.20	5.688
	WIND	51	59	101	205	156	71	131	274	228	189	170	82	53	59	57	68	77	78	185	141	66	107	66	65	100	65	93	83	47	52	69	3239
	MAX	78	75	79	77	72	75	70	73	74	74	75	77	68	73	78	77	78	78	75	73	-	-	-	-	-	-	-	-	-	-	-	-
	MIN	56	56	56	60	57	54	53	56	57	56	57	54	54	55	55	57	56	56	57	53	-	-	-	-	-	-	-	-	53	50	48	55.0
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.15	.15	.15	.15	.15	.15	.15	.19	.22	.18	.20	.20	.15	.19	.13	.00	.19	.17	.19	.14	.13	.17	.18	-	.15	.15	.15	.07	.15	.05	.15	4.708
	WIND	24	19	16	37	26	21	17	41	31	24	22	29	20	14	12	4	14	16	27	20	21	22	29	69	29	29	30	39	25	24	29	780
	MAX	83	82	83	80	81	76	76	79	79	77	80	80	82	83	79	71	85	86	82	80	81	83	78	76	82	78	80	72	72	70	71	78.9
	MIN	58	60	60	62	59	59	56	57	57	57	57	57	57	61	62	60	60	62	60	57	57	58	63	65	59	59	60	57	57	54	52	58.5

See Reference Notes Following Station Index

CONTINUED

STATION INDEX

HAWAII
JANUARY 1972

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL	
ISLAND OF HAWAII												
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600					HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	A 6552	02	PUNA	19 33	155 07	1530	9A					PUNA SUGAR CO
HAULENU 14	A 6580	03	KAU	19 04	155 35	675	9A					HUTCHINSON SUGAR CO
NARPOPOO 28	A 6697	04	S KONA	19 28	155 55	395	7A					KONA EXPERIMENT STA
NIULII 179	A 6800	01	N KOHALA	20 14	155 45	75	9A					KOHALA SUGAR CO
OKALA 223	7131	02	N HILO	20 01	155 17	430	7A					LAUPAHOGUE SUGAR CO
OPINIALE 2 24-1	7160	04	S KONA	19 16	155 33	1270	7A					MISS C. LEHARD
ORCHID LAND EST 91-5	7185	02	PUNA	19 34	155 00	445	VAR					BOARD OF WATER SUPPLY
PAPAIAU 217	7204	01	HAMAKUA	20 05	155 46	415	7A					PAUHAU SUGAR CO
PAUULO 221	7312	01	HAMAKUA	20 03	155 22	800	7A					HAMAKUA HILL CO
PANALA 21	A 7421	03	KAU	19 12	155 29	870	9A					HAWAIIAN AGR CO
PANZA 65	A 7457	02	PUNA	19 30	154 27	670	9A					PUNA SUGAR COMPANY
PAKAO 37	A 7458	03	KAU	19 22	155 29	500	9A					HAWAIIAN RANCH CO, INC.
PAPAIAU 144-1	7711	02	S HILO	19 47	155 06	200	7A					HAUNA KEA SUGAR CO
PAPAIAU MAUKA 140-1	7721	02	S HILO	19 47	155 08	1270	7A					HAUNA KEA SUGAR CO
PEPEKED MAUKA 144	8000	02	S HILO	19 51	155 05	100	7A					PEPEKED SUGAR CO
PINOWHA 89	A 8031	02	S HILO	19 44	155 10	1730						STATE DIV OF FORESTRY
POMAKULA 107	A 8043	02	HAMAKUA	19 45	155 32	6511	VAR					STATE DIVISION OF PARKS
PUAKO 95-1	A 8186	05	KOHALA	19 59	155 30							ERWIN W. RAPP
PUU KIME 120	A 8393	01	HAMAKUA	19 54	155 24	7750	9A					KUKAIAU RANCH CO
PUU LAU 102-1	A 8402	05	HAMAKUA	19 50	155 36	7440						STATE DIV OF FISH-GAME
PUU LEMIA 73	A 8403	04	N KONA	19 14	155 49	4890						W.H. GREENWELL RANCH
PUU MALI 113	A 8515	01	HAMAKUA	19 55	155 26	6960						KUKAIAU RANCH CO
PUU OO 82	A 8550	02	S HILO	19 44	155 23	6310						MISS JACKIE BENLEHA
PUU WAAMAA 94-1	A 8555	05	N KONA	19 47	155 51	3320						DILLINGHAM RANCH INC
SADDLE ROAD 1 84	A 8591	02	S HILO	19 42	155 12	2340						BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8675	03	KAU	19 57	155 41	300						HAWAIIAN RANCH COMPANY
UMIKOA 118	8763	01	HAMAKUA	19 59	155 23	3420						KUKAIAU RANCH CO
UPOLU POINT USCG 159-2	8830	01	N KOHALA	19 20	155 53	611	9A					U S COAST GUARD
WAIKAKA SCD 89-2	9025	02	S HILO	19 40	155 08	1050	7A					SHINICHI KANESHIRO
WAIKANGONOLA 178-6	9350	01	N KOHALA	19 20	155 47	3630	7A					KAHUA RANCH

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: As measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote under the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- ≡ Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special

U.S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

POSTAGE AND FEES PAID
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CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

FEBRUARY 1972

Volume 68 No. 2

JUN 21 1972

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature													Precipitation													
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days						Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days					
										Max. Min.									Total	Max. Depth on Ground	Date	10 or More	50 or More	100 or More			
										90° or Above	80° or Above	70° or Above	60° or Above	50° or Above	40° or Above												
* * * ISLAND OF KAUAI																											
ANAOLOA 1114 A	63.6	47.1	55.4		68	20+	36	27		0	0	0	0	0	0	9.18	3.72	3.95	23	.0	0		12	6	3		
KANALOHULU 1075																12.44	2.71	4		.0	0						
KAPAA STABLES 1104 A																10.46		5.08	23	.0	0						
KILAUEA FIELO 17 1135 A																8.87	.69	1.97	4	.0	0		5	2			
KILAUEA POINT 1133 A	75.3	68.2M	71.8M		81	29	65	17		0	0	0	0	0	0	8.02		2.02	21	.0	0		14	6	1		
KOLDA 936																8.72	2.48	2.85	23	.0	0						
LIHUE WSO 1020.1 AP //R	76.1	65.6	70.9	-.2	80	29+	57	26		0	0	0	0	0	0	7.77	2.45	3.85	22	.0	0		7	3	2		
MANA 1026	80.4	61.2	70.8	-.2	84	2	53	27		0	0	0	0	0	0	2.04	-.77	.71	23	.0	0		5	1	0		
N WAILUA DITCH 1051 A																28.05		5.56	4	.0	0						
PH WAINIHA 1115																11.64	-.01	2.84	10	.0	0		15	6	6		
PUEHU RIDGE 1040																		1.07	22	.0	0		8	4	1		
WAIHANA 930 A	71.4	58.8	65.1		74	21+	49	2		0	0	0	0	0	0	3.43	-.83	1.49	23	.0	0		16	7	6		
WAIAMI LOWER 1054																17.72		6.05	23	.0	0		5	4	3		
WAIWEA 947																5.05	1.65	1.64	22	.0	0						
ISLAND			66.8													9.85				.0	0						
* * * ISLAND OF OAHU																											
HONOLULU OBSERV 702.2																5.00		2.72	23	.0	0		6	4	1		
HONOLULU WSO 703 AP R	77.2	64.0	70.6	-1.8	80	15+	54	2		0	0	0	0	0	0	5.00	1.70	2.49	23	.0	0		7	3	2		
KAHUKU 912 A																5.01	-.06			.0	0						
KANEHE MAUKA 781	74.6	65.1	69.9	-1.3	79	29+	59	2		0	0	0	0	0	0	7.02	-.20	1.85	23	.0	0		15	5	4		
KOOLAU DAM 833 A																14.71	5.67	3.58	22	.0	0						
LUALUALEI 804 A	78.6	63.6	71.1		82	22+	55	3		0	0	0	0	0	0	3.84		1.12	23	.0	0				1		
MAKAPUU POINT 724	72.0	64.8	68.4		76	29	57	19		0	0	0	0	0	0	5.02	1.49	2.95	23	.0	0		8	2	1		
NUUANU RES 4 783																13.00	1.95	3.32	18	.0	0		13	9	4		
OPAEULA 870 A	76.3	56.6	66.5	-.2	82	2	50	2		0	0	0	0	0	0	4.69	-3.72			.0	0						
PAOLO VALLEY 718 R																15.66	4.66	5.50	18	.0	0		13	9	4		
PRI WAIHANA 820.2																				.0	0						
WAIHANA DAM 863 A	75.6M	58.8M	67.2M		82	22	51	2		0	0	0	0	0	0	6.91				.0	0						
WAIHOLE 837 A																5.15				.0	0						
WAIALEE 896.3	76.0	64.0	70.0		81	29	60	1		0	0	0	0	0	0	4.09	-1.32	1.01	23	.0	0		11	3	1		
WAILUA 847 A	76.3	59.1	67.7	-2.5	83	22	53	28		0	0	0	0	0	0	4.82	.01	2.64	5	.0	0		5	3	1		
WAIKIKI 717.2	79.3M	63.8M	71.6M		81	29+	52	1		0	0	0	0	0	0	5.12				.0	0		6	3	2		
WAIMANALO EXP FARM	76.5	64.6	70.6		79	26	55	2+		0	0	0	0	0	0	5.22		1.73	23	.0	0						
WAIKAMU 750 A																4.08	.39	1.38	22	.0	0				2		
ISLAND			69.4													7.01				.0	0						
* * * ISLAND OF MOLOKAI																											
KUALAPUU 534 A																7.16	3.52	1.90	23	.0	0						
MAPULEHU 542 A																6.04	1.94	2.20	24	.0	0		9	3	2		
MAUNALO A 511																7.56	4.48	1.92	25	.0	0						
MOLOKAI AP 524 A	74.6M	63.8M	69.2M		80	22	58	16+		0	0	0	0	0	0					.0	0						
ISLAND			69.2													6.92				.0	0						
* * * ISLAND OF LANAI																											
LANAI CITY 672 A	71.2M	56.2M	63.7M	-1.8	79	3	52	14		0	0	0	0	0	0	9.68	5.95			.0	0						
ISLAND			63.7													9.68				.0	0						
* * * ISLAND OF MAUI																											
HALEAKALA 8 E S 434 A	56.6	38.3	47.5		65	29	31	1		0	0	2	0	0	0	9.38	.26	3.23	9	.0	0		10	5	3		
HALEAKALA RS 338																9.37		2.37	5	.0	0		9	7	4		
HANA AIRPORT 355	76.9	62.1	69.5		83	5+	54	2		0	0	0	0	0	0	13.81		3.13	22	.0	0		15	8	4		
HONOKOHUA 493 A																7.23	3.49	3.06	25	.0	0		6	2	2		
KANAPALI AIRPORT	76.6	63.9	70.3		80	29+	57	27		0	0	0	0	0	0	6.38		3.42	25	.0	0						
KAHULUI WSO 398 AP R	79.2	61.5	70.4	-1.3	84	21+	53	1		0	0	0	0	0	0	8.31	5.77	4.30	24	.0	0		8	5	1		
KAILUA 446	72.7	60.8	66.8	-1.3	82	5	55	1		0	0	0	0	0	0	16.17	5.70	6.00	9	.0	0		19	7	4		
KEANAE 346 A																18.50				.0	0						
KIPAHULU 258																13.36	4.43	3.64	25	.0	0		9	6	4		
KULA SANATORIUM 267	68.1	53.0	60.6	-.5	72	25+	47	2		0	0	0	0	0	0	6.70	2.82	1.95	25	.0	0		8	4	3		
LAHAINA 361																				.0	0						
PAIA 406	80.5	61.6	71.1		84	29+	57	2+		0	0	0	0	0	0	9.63	7.54	6.75	25	.0	0		5	4	2		
WAILUKU 386 A	76.8M	62.3M	69.6M	-1.7	84	29	56	1		0	0	0	0	0	0	7.20	3.64	3.90	25	.0	0						
ISLAND			65.7													13.37	9.52	6.71	25	.0	0		2	2			
* * * ISLAND OF HAWAII																10.72				.0	0						
HAINA 214	75.8	61.6	68.7	-.8	88	6	58	21+		0	0	0	0	0	0	6.05	-.87	1.93	19	.0	0		9	4	3		
HAWAII VOLCNS NP HO 54 R	63.1M	49.3M	56.2M	-1.7	71	7	44	19		0	0	0	0	0	0	6.75	-3.50			.0	0						
HILO WSO 87 AP	78.8	62.5	70.7	.1	85	29	57	2+		0	0	0	0	0	0	10.13	-2.81	2.30	9	.0	0		12	7	4		
MOEHUE 92.1 A																4.20	1.49			.0	0						
KAINALIU 73.2	74.3	58.0	66.2		81	6	53	1		0	0	0	0	0	0	4.45	1.06	2.17	5	.0	0		4	2	2		

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 15

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
FEBRUARY 1972

Station		Temperature											Precipitation													
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days				
											Max.	Min.	Total	Departure From Normal					Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
KEAAU 92	76.0	61.5	68.8	- 1.5	83	6	59	20+		0	0	0	0	11.49	- 1.94	3.25	10	.0	0		16	6	4			
KEALAKEXUA 26.2	74.8	59.7	67.3		82	6	55	26+		0	0	0	0	3.65		1.60	26	.0	0		4	3	2			
KONA (KAILUA) 68.3	80.2M	64.0M	72.1M		83	29+	60	1		0	0	0	0	3.11		1.88	26	.0	0							
KUKUIHAELE 41C 199														5.81	- 1.50	1.96	19	.0	0		8	3	2			
KULANI CAMP 79	61.1M	44.2M	52.7M		71	6	39	27+		0	0	0	0	4.78		1.05	10	.0	0		13	3	1			
PAHALA 21	77.2M	59.5M	68.4M	- .4	87	7	56	21		0	0	0	0	5.29	- 1.30	3.54	22	.0	0		2	1	1			
POHAKULOA 107														2.28		1.35	5	.0	0							
PUAKO 95.1	80.9	63.3	72.1		86	5	58	26+		0	0	0	0	2.33		2.27	26	.0	0		1	1	1			
PUU WAHAA 94.1														2.02	- .55	1.50	26	.0	0		3	1	1			
UMIKOA 118														5.09	- 5.46			.0	0							
WAIKAE SCD 88.2														11.76		4.30	10	.0	0		15	5	3			
ISLAND			66.3											5.57				.0								

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 88° ON THE 6TH AT HAINA 214, HAWAII

LOWEST TEMPERATURE: 25° ON THE 11TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 49.50 INCHES AT MOUNT WAIKAELE 1047, KAUAI

LEAST TOTAL PRECIPITATION: 1.04 INCHES AT KONA VILLAGE 93.8, HAWAII

GREATEST ONE-DAY PRECIPITATION: 7.00 INCHES ON THE 25TH AT LAUNIUPOKO VILLAGE 372, MAUI

SPECIAL WEATHER SUMMARY

What had previously been a rather lack-luster winter came to life in February. Storms migrating eastward across the Pacific along tracks more southerly than they had been earlier in the season brought Hawaii several intervals of strong gusty winds and of heavy rains and thunder-showers. Although some wind and rain damage did occur, the rains were probably more beneficial than harmful in their effects.

On February 4 a small intense low pressure area moving northeastward several hundred miles north of the islands, brought occasionally heavy showers and strong southerly winds to Kauai and Oahu. Peak gusts at a number of stations are given in Table I.

Winds were strongest where accelerated by topography. On Oahu's northeastern coast--called "windward" because of its location relative to the prevailing east-northeasterly trade winds, but which for southerly or southwesterly winds, lies leeward of the steep eastern slopes of the Koolau Mountains -- gusts at the Kaneohe Marine Corps Air Station reached 69 m.p.h. In Waimanalo, Koolauoko, and Waiahole 130 acres of banana trees toppled out of a total of 400 acres for an estimated loss of \$10,000 to \$50,000. (Some of the fruit is salvageable.) In Waimanalo itself a carport was ripped from its foundations; road, construction and store signs were knocked down and blown away; and, at the Beach Park, debris was blown into the ocean, trees and shrubs uprooted, and outdoor fireplaces and facilities ripped loose or overturned. A few lightly constructed roofs blew off, one of them at Kahaluu, and there was other scattered damage to roofs and windows of homes. In Keapuka several television antennas were blown away, and at Makapuu Beach Park a 6-inch layer of sand drifted over the highway. Elsewhere on Oahu, strong cross winds hindered aircraft at Honolulu Airport and high winds halted the Hawaiian Open Golf Tournament for 8 minutes.

On Kauai, property damage was lighter than on Oahu but broken branches, leaves, and other debris were strewn along highways, a large plate glass window broken in Hanalei, and at Metcalf Farms in Kilauea a grain storage bin 25 feet high by 8 feet in diameter was carried across the highway by the wind. Five acres of banana trees were toppled out of a total of 130 acres, but losses ran under \$10,000.

Maui's Kaanapali Airport was closed down to light aircraft, but no crop or property damage of consequence appears to have occurred on the island.

On Hawaii Island, the Hilo area reported minor wind damage to homes and business buildings. In Kohala, high winds lifted off a roof and knocked down a nearly completed two-story house. A few

papaya trees were felled and some vanda orchids destroyed in Kapoho and Pahoa, but damage is believed to have been light. Mauna Kea Summit reported fog, freezing drizzle, and winds estimated at 60 to 80 m.p.h.

Associated with the northeastward-drifting storm center was a trough of low pressure that progressed steadily down the island chain accompanied by scattered thunderstorms and heavy showers. On Oahu and Kauai peak intensities appear not to have exceeded about 1 inch an hour, although at one time 4 inches of water covered the Kalaniana'ole Highway at Kahana Bay in eastern Oahu.

On the eastern slopes of West Maui, 24-hour rainfall totals exceeded 10 inches. Elsewhere on Maui, the rain was lighter and in general, helpful, particularly to crops and pastures in Maui's Kula, Omaopio, and Ulupalakua areas where further moisture was needed despite January's rains.

On the evening of February 8, Maui was hit again by heavy rains associated with a low pressure trough traversing the island chain higher in the atmosphere. The Wailuku Sugar Company reported nearly 3.5 inches during a single hour and 20 acres of 2-month old sugarcane washed out at an estimated restoration cost of \$18,000. However, the storm also brought more than 10 inches of rain to northeastern Maui's Waikamoi reservoir, which had been so badly depleted during the long dry spell of the previous year.

Along the upper Hilo coast of Hawaii Island 2-day storm totals exceeded 11 inches in places, with peak intensities of approximately 1.5 inches an hour.

On the 17th and 18th another cold front moved through the islands accompanied by extensive clouds and showers. Strong, northeasterly trade winds in advance of the front left the heaviest rains on eastern Maui's windward slopes and generated high surf that on February 19 threw gravel and rocks onto the Bay Front Highway at Hilo, closing it for several hours.

On the evening of February 21 another low pressure area, similar to that of February 4 but further north, this time about 700 miles northwest of Honolulu, was drifting northeastward while drawing into its center broad converging currents of southerly winds that streamed across the islands.

At the same time a region of low pressure (trough) passing eastward through the island chain increased the instability of the moist air, permitting clouds to grow to great heights. Even on the previous day, February 20, lightning had slightly damaged one home in Hilo and barely missed

SPECIAL WEATHER SUMMARY - Continued

another. A dog was killed either by lightning or flying debris.

By the morning of February 22, a 240-mile-wide band of heavy showers and thunderstorms lay astride Molokai Channel and was moving south-eastward. A twin-engined aircraft attempting to reach Lanai from Honolulu through the weather front crashed at sea, killing all eight aboard. Hawaii Island's Volcano area reported hail at about 5:30 p.m.

On the 23d, heavy rain during the morning rush hour produced what was described as possibly Oahu's worst traffic snarl in history. Traffic on highways leading into Honolulu backed up for miles amidst stalled cars, minor accidents and, on the Pali Highway, a landslide. Earlier in the day lightning had hit a transmission line in Honolulu's Hawaii Kai district, shutting off power to 1,000 homes for about a minute. Another bolt, sounding to the occupants "like a jet airplane crashing into the roof," smashed a 2-foot hole in the garage roof of a home, throwing shingles and bricks around the yard and shearing off the top of a coconut tree.

A small plane attempting to fly from Hilo to Honolulu went far off course while circling massive thunderheads off western Molokai. During the evening hail fell on Hawaii Island, about 2 miles southwest of Hilo Airport.

The heavy rains reached Maui the evening of the 24th. In the Wailuku, Kahului, and Lahaina areas where rainfall rates reached 2 inches an hour, and totals of 5 to 8 inches occurred within a few hours, highways and roads turned into torrents.

Erosion was heavy. At the Wailuku Sugar and Pioneer Mill Companies most fields with young cane were washed out and foot-deep layers of mud, sand, rock, and other debris covered the roads. Numerous homes, lawns, and patios were flooded. Many cars stalled and poor visibility in rain caused a number of automobile accidents which injured at least three persons, none seriously. Flood waters at Paia halted traffic to Makawao and beyond.

In the Lahaina area, which received nearly half its mean annual rainfall within the space of about 5 hours, power and telephone circuits were out from 6:30 p.m. to 8 p.m. Lahaina's Front Street ran 2 to 3 feet deep with water, and by the morning of the 25th it was a river of mud and water. There, and on Wainee Street, where a drainage ditch overflowed, a number of houses sustained damage.

Following an almost day-long blizzard on the 25th, the astronomical observatory atop Mauna Kea reported 3 inches of new snow extending down to about the 9,000-foot level, with drifts of more than 6 feet closing the last 1,000 feet of the road to the summit.

As the month ended nearly all of the State had received moisture enough to put an end to the long dry spell of the previous year. A few areas had received too much rain and an island-wide papaya shortage from root rot and fruit rot was anticipated. On the other hand, a scattering of gages in western Kauai and on Oahu and Maui had less than their February averages, as did most of Hawaii Island's south Kohala, Hamakua coast, and Kau Districts.

TABLE I

Peak Gusts Observed on February 4

<u>Location</u>	<u>Speed (miles an hour)</u>	<u>Direction (from which the wind blows, in degrees)</u>
KAUAI		
Kokee	58	140°
Lihue	51	220°
OAHU		
Honolulu	36	200°
Kaena Point	52	195°, 215°, 225°
Kaneohe MCAS	69	180°

SPECIAL WEATHER SUMMARY - Continued

TABLE I - Continued

Peak Gusts Observed on February 4

<u>Location</u>	<u>Speed (miles an hour)</u>	<u>Direction (from which the wind blows, in degrees)</u>
MAUI		
Kaanapali	40	170°
HAWAII		
Hilo	44	170°
Kona	46	170°

Saul Price
Regional Climatologist for Pacific Region
National Weather Service Office
P. O. Box 3650
Honolulu, Hawaii 96811

DAILY PRECIPITATION

HAWAII
FEBRUARY 1972

Station	Total	Day of Month																																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF KAUAI																																			
LAHONA 1114	A	9.18	.04		1.50	*	*	.50			.29	.06	*	*	.05			.14	.04	*	*	.20	1.55	3.95	.70	.02	*	*		.15	.05	*			
BYRONESMAN STA 985	A	5.79		T	.39	*	*	.61		.01	.69	.06	*	*	.32	.02			.04		*	*	.75	.50	2.15	.02	.13	*	*		.10	T	*		
EAST LAKE 934	A	6.84			.36	*	*	.88	.02	.07	.74	.06	*	*	.16	.02		.04	.04	*	*	.103	1.12	2.10	.03	.12	*	*		.05			*		
ELEEF 927	A	6.84			.21	*	*	.20			.21	*	*	*	.05					*	*	.14	*1.1	1.03	.03	.02	*	*		.12			*		
HALENA 1110	A	10.13	.03		1.70	*	*	.70		.02	.35	.02	*	*	.10				.24	.09	*	*	.35	1.35	3.90	.90	.23	*	*		.25	.10	*		
HALENAHMO 1006	A	7.94		.02	.02	.64	*	*	1.09	.14	.06	.39	.04	*	*	.19			.04	.06	*	*	.78	1.97	2.05	.13	.23	*	*		.06	.05	*		
WILSON 945	A	3.79			.51	.32	*	*													*	*	1.30	1.10			.32	.24	*				*		
WILSON INTAKE 1050	A	20.64	.02	*	5.39	*	*	1.30	.20	.23	1.25	.25	*	*	.82	.18		.14	.38	*	*	4.42	1.56	4.69	.51	.48	*	*		.56	1.26	*	*		
INTAKE WAINIHA PC 1086	A	15.91		*		4.11	*	1.38	*	*	3.45	.04	*	*	*	*		.53	3.34	*	*		.83	*	*	2.23	*	*		.05			*		
KANALOH LUMULU 1075	A	12.44	.28		2.71	2.23	.43	.02			.22		.02						.44	.04	.05		1.22	1.20	.23	.64	.45	*		.05	2.21	*	*		
KANEHA RESERVOIR 1092	A	15.19	.09		2.30	*	*	3.10	.15	.05	.70	.06	*	*	.30					1.02	*	*	1.15	1.17	3.30	1.30	.15	*	*		.25	.10	*		
KAPAA STABLES 1104	A	10.40			1.57	*	*	.52			.10	*	*	*	.03			.12	.30	*	*	.30	1.20	5.08	.75	.05	*	*		.32	.12	*	*		
KAHIA 1117	A	9.83	.02		1.10	*	*	.55		.01	.19	*	*	*	.10				.14	.15	*	*	1.95	4.10	.80	.03	*	*		.40	.04	*	*		
KERAMA 944	A	2.45			.39	.20	*	*			.01										*	*	.53	1.10	.02	.10	.08	*					*		
KILAUEA 1134	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KILAUEA FIELD 17 1135	A	8.87	.40	.02	.02	1.97	*	*	.47	.15	.12	.95	.02	*	*			.02	.07	.47	*	*	1.37	.64	.52	.30	*	*		.15	.42	*	*		
KILAUEA POINT 1133	A	8.02	.06	.10	.66	.09	.14	.10	.02	.84		.09	.05	*	.07			.30	.25	.07	*	*	.82	.40	.75	.63	*	*		.24	.32	*	*		
KILOA 1033	A	2.28			.12	.43	.03				.15			*							*	*	.85	.02	.18	.27	*	*					*		
KILOA 936	A	8.72			.04	.88	*	*	.45	.03	.04	.06	*	*	.13			.08	.07	*	*	2.00	2.85	.05	.17	*	*		.10			*			
KILOA MAUKA 994	A	10.17		.04	.07	1.11	*	*	.11	.10	1.79	.03	*	*	.06		.06	.14	*	*	1.04	2.55	.07	.21	*	*		.06	.04	*	*				
KOLOKO RES 1137	A	9.08	.32	.05	.04	3.00	*	*	.02	.08	1.01	*	*	.05			.02	.06	.29	*	*	1.27	1.27	.32	.21	*	*		.20	.20	*	*			
KUKUIJULA 935	A	5.54			.25	*	*	T	.15	.02	*	*					.14	.02	*	*	1.10	2.34	.07	.08	*	*		.08			*	*			
LIMUE VARIETY STA	A	8.81			1.58	.36	*	*	.37	.10							.25	.07	*	*	1.37	3.22	.50	.10	.11	*	*		.06	.12	*	*			
LIMUE 1020	A	7.28			.80	*	*	.02	T	.03	*	*					.21	*	*	1.55	2.58	.23	.25	*	*		.02	.12	*	*		*			
LIMUE WSO 1020.1 AP	//R	7.77	T	.12	1.77	.08	T	T	T	.04	.02	T	.01				.03	.26	.05	T	.98	3.85	.22	.28	.21	*	*		T	.05			*	*	
MAKAHUNA POINT 940.1	A	7.41			.03	.23	.56		.03	.02	.07	.02	.01		.20		.15	.09	.12	.02			1.16	.07	.04	.08	*	*		.13	.13	*	*		
MAKAHELI 965	A	3.14			.40	.18	*	*		.01	.02	.01					.03		.03			.75	.05	.10	.18	*	*					*	*		
MAHA 1076	A	2.04			.17	.19	*	*												*	*	.71	.66	.47	.08	*	*					*	*		
MOHIMI UP CRUSS 1083	A	15.12	.10		.30	3.67	1.39	*	.10	.99	.10	.10		.20			.40	.70	.20	.10	1.19	2.09	.20	.50	.60	*	*		.10	2.09			*	*	
MOLOAA 1145	A	9.19	.40		.41	2.50	*	*		.05	.56	*	*				.06		.20	.10	.14	.76	2.42	.57	.30	*	*		.09	.09	*	*			
MOUNT MAIALEALE 1047	R	49.50	.04	.08	3.35	4.88	.31	.08	1.34	2.44	4.76	3.66	.75	.55	.91	.67	1.26	.39	1.22	2.80	.472	3.23	5.30	3.15	.71	.28	.12	*		.87	5.43	*	*		
NIU RIDGE 1035	A	2.66			.49	.39	*	*									.20	.10	.50	*	*	2.90	4.40	.80	.50	*	*				*	*			
N. WAILUA DITCH 1051	A	28.05	.16		5.80	1.36	.02	*	3.26	.46	.27	2.10	.26	*	.60	.30		T	.10	.50	*	*	1.04	.26	.01	.09	.44	*		.36	1.20	*	*		
PH WAINIHA 1115	A	11.64	.18	T	1.17	1.43	.34	*	.09	.07	.35	2.84	T	.05	.10	.11		T	.14	.50	*	*	.31	.26	.121	.09	.44	*		.20		*	*		
PRINCIVILLE RANCH 1117	A	5.51	.15		.02	.62	*	*	.16	.15	.75	*	*				.02	.29	*	*	.31	.46	.51	.05	*	*					*	*			
PUEHU RIDGE 1040	A	4.48			.85	.75	*	*									.04	.15	*	*	1.40	2.03	.10	.19	*	*		.07	.02	*	*				
PUMI 1013	A	7.15	.02		.81	*	*	.03	.06	.16	.02	*	*				.04	.15	*	*	1.40	2.03	.10	.19	*	*		.07	.02	*	*				
RESERVOIR 6 1004	A	7.70			.97	*	*	.19	.16	.32	*	*	.03			.04	.16	*	*	2.03	2.07	.03	.16	*	*		.05	.02	*	*					
WAIHANA 930	A	3.43			.23	*	*	*	*	*	*					.02	.03	*	*	1.49	T	.10	.20	*	*		.06				*	*			
WAIHANA MOUNTAIN 990	A	19.50	*	*	*	*	*	*	*	*	*	*	*				.02	.03	*	*	1.49	T	.10	.20	*	*		.06			*19.50				
WAIHAI LOWER 1054	A	17.72	.01		.02	1.79	1.32	.02	.24	.18	.83	.13	.18	.32	.02	.08		.09	.09	.37	2.34	.27	1.84	6.05	1.09	.26	.08	*		.10		*	*		
WAIHAI UPPER 1052	A	20.31			3.35	2.35	*	*	.10	.13	1.10	.05	.29	.31	.05		.05	.03	.01	.91	2.99	.10	1.65	4.75	.73	.45	.51	.10		.31		*	*		
WAIHAI 943	A	2.05	.02		1.24	.12	*	*	.10		.03	*	*				.04	.03	.20	*	*	1.55	3.85	.36	.11	*	*		.05	.03	*	*			
WAILUA KAI 1065	A	9.09			1.19	*	*										.43	.20	*	*	.31	.46	.51	.05	*	*					*	*			
WAIMEA 947	A	5.05			1.20	.78	*	*	.18	.83	.13	.18	.32	.02	.08		.09	.09	.37	2.34	.27	1.84	6.05	1.09	.26	.08	*		.10		*	*			
WEST LAKE 931	A	5.38			.24	*	*	T	.01	.22	.01	*	*	T		.03	.01	*	*	.93	2.52	.03	.06	*	*		.09				*	*			
ISLAND OF OAHU																																			
BERETANIA PUMPING STA	A	6.10			.04	.90	*	*	T	.14							.01	.02	.02	.03	.24	3.70	.55	.45	*	*					*	*			
CAMPBELL INO PK 702.5	A	4.35			.10	.33	*	*	T	.14							.04	.04	*	*	1.92	.10	.74	*	*					*	*				
CAMP 84 807	A	5.59			1.22	.22	*	*	*	*	*	*				.04	.04	*	*	.97	.05	.58	*	*					*	*					
CHURCH COLLEGE LAIE	A	4.67	.01	.01	.01	1.36	.02	*	.01	.04	.11						.10	.10	.03	.05	.83	.31	.06	.46	.13	*	*					*.01			
COCONUT ISLAND 840.1	A	4.01			.10	.93	*	*	.02	.12	.01		.02	.02	.01		.32	.02	.03			1.36	.07	.69	.01	*	*					*	*		
EVA PLANTATION 741	A	3.98			.02	*	*					*	*				.19			*	*	1.54	.14	.78	*	*					*	*			
HELEMANA INTAKE 881	A	6.37	*	*	*	*	*	*	*	*	*	*	*						*	*			.25	*	*										

DAILY PRECIPITATION

Continued

HAWAII
FEBRUARY 1972

Station		Total	Day of Month																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KEONELELE PENS 551	A	4.60					1.13						.20									.18											
KUALAPU 534	A	7.16	.06	T				1.13		.50										.93			.18		.55	1.90	.39	1.70					
WAPULEU 542	A	6.04				1.09	.29	.03		.01	.28	.25	.01	.05						.10		.04		.81	.39	2.20	1.70	.4					
MAUNALO 511	A	7.56	.06			.02				1.26		.41							.40	.45		.21	1.84	.66	.71	1.92							
MOLOKAI AP 524	A		.06	T			.76	.08				.65								.44	.22	T											
PUOHOKU RANCH 542.1	A	9.01	.05		.04		1.68	.10	1.10	.08	1.32	.10						.09		.41					.85	.09	3.00	.10					
WAIKOLU 540	A	5.54																								5.54							
ISLAND OF LANAI																																	
KANEPUU 690	A	5.36											1.94													1.78						1.64	
KAUMALAPU HARBOR 658	A	4.85							1.50				1.10							.01													
LANAI CITY 672	A	9.68							3.10		.56		.02							.01			1.54		.59	1.00	1.65						
LANAI VALE 684	A	7.17											1.60											1.02	.83	2.60							
MAHANA 694	A	5.86			.01								.04													2.30						3.25	
ISLAND OF MAUI																																	
MALAUUA 676	A	6.37																								1.83						2.58	
WAIKAEKUA 685	A	9.51											2.24														1.55					5.95	
ISLAND OF MAUI																																	
AUWAHI-252	A	6.64					3.25			.37										.22				.80							2.00		
HALEAKALA 8 E S 434	A	9.38					.40	.72	.03	.43	3.23	.65		.05	.02					.43	1.39	.02		.11	.27	.08	1.49	.05	.01				
HALEAKALA RANCH 432	A	6.66							1.18		2.04	.20								.05	.42		1.06	.11	.27	.08	1.49	.05	.01				
HALEAKALA RS 338	A	9.37			.02	2.37	.75		.01	.01	1.44	.52	T							.05	.42			.12	.60	.08	1.63	1.35					
HALEAKALA SUMMIT 338.4	A	9.07						4.70		.30										.60			.60	.26	.60	.03	1.57				.21		
HALIIMAELA 423	A	8.20						1.18	.08	2.25	.17				.16				.02				1.35	.01	.55	.14	2.28				.01		
HAMAKUAPOKO 485	A	9.82	.01			.45	.20	.01	.05	3.14	.43	T	.05	.15	T				.05	1.23	.03	.01	.06	.32	.15	3.46	.02						
HANA 354	A	11.56	.09			2.20		1.48	.10	1.82	.17				.02				.26	1.07			.23	.92	.02	2.25	.55					.18	
HANA AIRPORT 355	A	13.81	.04	T		.40	.47	.68	1.27	.82	2.75	.09	.03	.06	.01	.04	T	.06	T	.15	1.55	.17	.53	3.13	.32	.02	.80	.25	.17	T			
HANAHULI 281	A	12.33				2.93	.15	.29	.15	1.13	.08		.05				.10		.32	1.09	.14	1.29	.05	.02		4.15	.36	.03					
HOLUA CABIN 259.5	A	10.92	1.38					4.30				1.09	1.11									.74								2.30			
HONOHONOHU 480	A	18.72																															
HONOHONOHU 493	A	7.23							1.57		.33	.70	.01				.02						.64	.05	.45	.30	3.06					18.72	
HONOHONOHU GULCH 341	A	11.00																														11.00	
KAANAPALI AIRPORT	A	6.38				1.79	.05				.21	.01			.01								.12	.05		.02	.47	.22	3.42	.01			
KAHOMA INTAKE 374	A	3.43																														3.43	
KAHULUI WSD 398 AP	R	8.31			.90	.40	T			.82	.03	T		.05	T								.53		.47	.13	4.30	.68					
KAILIILI 436	A	16.54																														16.54	
KAILUA 446	A	16.17	.06			.16	.83	.48	1.10	6.00	.48	.01	.10	.21	.16	.01		.09	.12	.50	3.10	.20	.06	.30	.11	.06	1.20	.15	.56	.11	.01		
KAUAI INTAKE 375	A	11.98						2.65							1.63								1.20									6.50	
KEAHUA 410	A	6.70				.84	.24	.01	.03	1.56	.05		.01						.18	.53				.05	.44	.10	2.38	.28					
KEANAE 346	A	18.50																														18.50	
KEAWAKAPU BEACH 260.2	A	4.28			1.22	.31				.56																							
KIHEI 311	A	4.26			1.20	.11		.45	T														.07										
KIPAHULU 258	A	13.36			2.52	.20	.05	.07	2.50	.53			.15										.40										
KULA HEIGHTS 323.2	A	3.78			.52	.62			.24	.59													.18		.12	.30	.05	1.16					
KULA SANATORIUM 267	A	6.70			1.65	.80	.02	1.27					T										.15		.40	.23	.05	1.95	.18				
LAHAINA 361	A	9.63			1.47			.63																									
LAUNIPUPO INTAKE 376	A	11.10																															
LAUNIPUPO VILLAGE 372	A	10.73				2.00	.25		.80																	.52	.16	7.00					11.10
LUPU UPPER 442	A	17.40																														17.40	
MAHINAHINA 466	A	7.26					1.85	.45		.35	.15								.15	.80					.48	.28	2.75						
MAHOLE - FLO 60-497	A	4.81							1.36	.81							.50														2.81		
OLINGA 332	A	6.42	T					1.64	.06	1.92	.23	T													.88	.22	.06	1.09				.17	T
OLDOWALU 296	A	4.70				1.00	.03			.80																.64	.06	2.17					
OLDOWALU GULCH 377	A	10.00																														10.00	
PAAKEA 350	A	18.73			.03	.09	1.04	1.44	1.56	3.56	1.25	.06	.05	.28	.22	.17	.15	.22	.12	4.74	1.22	.14	.64	.70	.05	.61	.39						
PAIA 406	A	7.20						.01	1.64	.06	T	.04	.07	.01					.28	.46	.01	T	.08	.40	.17	3.90	.07						
PANILEHULU 259.2	A	19.80																															
POMAKA 8100 307.2	A	4.91				1.65	.32	.01	.04	.25													.10	.07		.04	.62	.05	1.75	.01			
POLIPOLI SPRINGS 267.2	A	7.00																														7.00	
PUOHOKU 2 343	A	29.60																															29.60
PUU KUKUI MAKAII 472	A	16.60																														16.60	
PUUNENE 396	A	3.51				1.40		.05	.80	T																							14.00
SPRECKELSVILLE 400.2	A	7.67			1.25	.19	T		1.04	.04		.09	.01	.01					.25	.29													

DAILY PRECIPITATION

HAWAII
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Continued

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
#10LAKAA A C F 5	A	3.55	*	*	*	*	*	*	.41	.48	.40	.84	.68	.42	.35	.41	.08	.18	.01	1.71	.25	.43	.75	T	1.63	*	*	*	3.55	*	*	*	
KIPA 89.2	A	17.77	*	*	.04	*	.01		1.94	.13	.16	.30	.04	*	.09	.06	.01	.01								.15	*	.07	.09	4.43	*	*	
KOMALA PAULILI 176	A	6.73	*	*	*	*			.12	.21	.58	.39	.10	.05	.01	T	.02	.01	.04	2.29	.01	.03	T	T	*	*	*	.23	1.63	T	2.00	.01	*
KOMALA WISSON 175.1	A	8.15	*	T	*		1.78	.65	*	*	*	*	*	*	*	*	*	.01	.04														*
KOIAWE LOWER 196	A	4.98	*	*	*	.28	*	*	*	*	*	2.65	*	*	*	*	*			.30				*	*	*	1.65	*	*	*	*	*	
KONA (KAILUA) 68.3	A	3.11	*	*	*	*	*	.95	.06	T	*	*	*		.03	.06											.13	1.88	*	*	*	*	
KONA VILLAGF 93.8	A	1.04	*	*		.12	.02																				.90	*	*	*	*	*	
KUKAIU 222	A	7.97	*		.01	.16	.69	.56	.15	.86	1.62	.22	.14	.02	.25					2.54				.17	.11		.01	.46	.01	*	*	*	
KUKUIHALE MIC 199	A	5.81	*	*		.30	.41	.18	.09	1.90	.22	.10	*	.02						1.96	.06						.01	.54	.02	*	.76	*	
KUKUIHALE MILL 206	A	3.94	*	*	*	*	*	.70	.08	.84	.12	.10	*	*	.01			.01				1.32										*	
KULANI CAMP 79	A	4.78		.20	.02	.08	.29		.31		1.05	.32	.11	.14	.10	.17	*	.06	.02	.72	.07	.07	.54				.10	.31	.08		.02	*	
KULANI MAJKA 76	A	2.10	*	*	*	*	*	.12	.02	.20	.20	*	*	*	*	*	*		.35	.03	.98	.10						.20					*
KULANI SCHOOL SITE 78	A	7.71	*	*	*	*	2.65	*	*	*	*	*	2.25	*	*	*	*	*		1.30	*	*							1.51	*	*	*	*
LANIMAU 68.2	A	6.11	*	*	*	*	*	.13			.30	1.07	.20	*	*	*	*	*										.21	2.60				*
MAKAMALAU 103	A	3.89	*	*	.42	*	*	.48				.20	*	*	*	*	*	*					.35					.57				1.87	*
MAJKA 7	A	2.00	*	*	*	*	*	*			.01	.40	*	*	*	*	*	*	*								1.20	*	*	*	.40	*	*
MAJKA LOA SLOPE 085	A	1.24	*	*	*	.06	.27	.30	.09	.01	.40	*	*	*	*	*	*	*	*			.07	.04				.19	.21	*	*	*	*	
MIDDLE KOLUALOA 68.1	A	1.68	*	*	*	*	1.25	*	*	*	.18	*	*	*	*	*	*	*	*	*	*						.25	*	*	*	*	*	*
MIDDLE PEN 147.1	A	2.55	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*											2.55	*
MOAULA 18	A	3.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*											3.40	*
MOUNTAIN VIEW 91	A	13.99	.02	.03	.01	.09	*	.24	.16	.87	4.95	.64	.18	.61	.42	.35	.02	.08	.01	1.13	.11	.12	3.11	.02	.02	.54	.23	.02	*	*	.01	*	
NAALEHU 14	A	2.34	*	*	*	.09	*	.20	.02	.02	.01	*	*	*	*	*	*	*	*	*	*		.06	.34	T		1.54	*	*		.04	*	*
NAPOPOO 28	A	1.53	*	*	*	*	*	.51	*	*	*	*	*	*	.01	*	*	*	*	*	*										1.01	*	*
NIULI 179	A	7.57	*	*	*	*	*	1.52	.12	1.48	.25	.13	*	*	.07	*	*		.31	.09	*	2.00									1.60	*	*
OOKALA 223	A	10.47	*	*	*	.02	.77	.44	.24	3.54	2.10	.08	.13	.02	.30	.05	.01	.01	T	1.83	.06		.08	.34	.06	T	.33	.06	T	*	*	*	
OPINIMALE 2 24.1	A	2.88	*	*	*	.25	.17	.36	.06	.01	.04	*	*	*	.02	*		.13	.17	T	T					.44	1.23	T	T	*	*	*	
ORCHID LAND EST 91.5	A	10.45	*	*	*	.52	*	*	*	*	3.31	*	*	*	*	*		1.41	*	*	*	*					5.21	*	*	*	*	*	*
PAUHAU 217	A	7.93	*	*	*		1.75	.17	.13	1.71	.25	.04	.06	*	.02	*										.04			1.26	*	*	*	
PAUULO 221	A	7.78	.01	T	*	.03	.97	.62	.16	.84	1.20	.20	.08	.01	.16	.01			2.50							.17	.19	T	.55	.01		*	
PAUULA 21	A	5.29	*	*	*	.09	*	.10	.46	.01	.05	*	*	*		.16				2.57						.01	.62	*	*		.25	*	*
PAHOA 65	A	16.90	*	*	*	.87	*	.80	.42	.36	.65	3.35	.11	.10	.34	.24	.05	.05	.20	.09	2.00	.19	.22	1.67	.22	.27	4.25	.19	.02	*	.24	*	
PAKAO 37	A	5.10	*	*	*	*	*	*	.08	2.19	4.68	5.16	.13	.17	.34	.26	.08	.02	.01	.03	1.84	.17	.13	1.25		2.80	.01	.03	.02		.14	*	
PAPAIAKOU 144.1	A	20.67	.02	*	.01	.01	.01	.02	.92	4.63	6.79	.93	.57	.39	.45	.14	.02	.27		1.96	.19	.29	.76	.01	1.36	.01	.07	.16	.69			*	
PAPAIAKOU MAUKA 140.1	A	13.96	.01	*	.09	.09	*	.21	2.10	2.29	2.40		.01	.33	.21	.07	.04	.57		2.18	.09	.10	1.53	.01	1.10	.12	.08	.12	.21			*	
PEPEKEO MAKA 144	A																															*	
PIIMONUA 89	A	18.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*										18.00	*	*
POMAKULOA 107	A	2.28	*	*	*	1.35	*	.08	.06	*	*	*	*	*	*	*	*	*	*	*	*						.79	*	*	*	*	*	*
PUAKO 95.1	A	2.33	*	*	*	.03	T	T	.01	*	*	*	*	*	*	*	*	*	*	*	*						.01	2.27	.01	*	*	*	*
PUU KIME 120	A	1.92	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*											1.92	*
PUU LAU 102.1	A	3.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*											3.00	*
PUU LEHUA 73	A	5.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*											5.00	*
PUU MALI 113	A	1.32	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*											1.32	*
PUU OO 82	A	3.23	*	*	*	*	*	.07	.25	.13	.70	.53	.08	.06	.06	.03	*		.02	*	*						1.10	*	*		.20	*	*
PUU MAWAA 94.1	A	2.02	*	*	*	.13	*	.03	T	*	.07	*	*	*		.17	*										.07	.05	1.50			*	*
SAOOLE POAO 1 84	A	12.99	*	*	*	.15	*	*	*	*	*	6.40	*	*	*	*	*	1.89	*	*	*	*					4.55	*	*	*	*	*	*
SOUTH POINT CORRAL 3	A	1.67	*	*	*	*	.85	*	*	*	*	*	*	.15	*	*	*	*	*	*	*						.07	*	*	*	.60	*	*
UMIKUA 118	A	5.09	*	*	*	.29	*	.45	*	.52	.35	.13	*	*	*	*	*	*	*	*	2.25			.41	.23		.40	.44	*	.02	*	*	
UPOLU POINT USCG 159.2	A	2.49	*	*	*	.18	.41	T	.02	.05	.27	T	.03	*	.06	.05	.02	*		.27	.02							.71	*	*	*	*	
WAIKAEA SCO 88.2	A	11.76	.12	*	*	*	*	T	.34	.56	4.30	.44	.39	.21	.57	.10	T	.02		2.02	.22	.18	.48	1.50		.05	T	.09	.17			*	

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation								Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
							150TH MERIDIAN													
							02	08	14	20										
HILO WSO 87 AP	14	2.4	6.6	26	SE	22+	92	87	73	87	2	9	5	3	3	1	23	21	8.5	
HONOLULU WSO 703 AP	8	6.4	12.9	27	NE	13+	83	82	65	75	12	1	4	1	1	1	20	56	6.0	
KAHULUI WSO 398 AP	6	4.9	10.5	32	S	04	86	85	62	76	3	2	3	4	0	1	13	57	6.3	
LIHUE WSO 1020.1 AP	8	4.4	11.0	34	SW	04	86	82	73	81	8	8	4	1	1	1	23	40	7.2	

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Station		Day of Month																																Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	57 48	60 39	65 41	63 50	63 56	63 51	64 44	63 45	66 48	65 54	63 48	63 49	65 52	68 48	64 41	63 42	62 41	60 41	63 48	68 50	65 45	67 51	66 55	63 50	59 42	64 46	65 36	66 49	61 55			63.6 47.1	
KILAUEA POINT 1133	MAX MIN	77 66	73 66	77 66	74 66	77 69	73 66	74 70	74 67	75 71	74 67	76 67	74 67	75 70	74 68	77 71	74 68	78 65	75 67	72 70	74 67	78 70	74 67	78 69	73 67	74 67	80 70	74 67	81 74			75.3 68.2		
LIHUE WSO 1020.1 AP	MAX MIN	75 58	75 58	76 69	80 72	76 68	75 66	76 70	77 70	75 70	77 70	76 68	76 68	77 69	77 70	77 66	78 62	77 61	77 62	78 64	77 64	77 62	73 67	77 67	76 67	75 60	74 57	77 59	78 65	80 73			76.1 65.6	
MAKAHUEA POINT 940.1	MAX MIN	78 57	79 60	71 69	73 61	79 63		77 64	78 69	75 70	77 68	76 67	77 67	78 69	77 70	77 67	81 66	79 67	82 62	74 66	76 66	78 67	81 67	75 65	80 67	79 60	79 60	83 59	78 71	81 67			77.8 65.7	
MANA 1026	MAX MIN	82 68	84 59	79 61	78 64	82 67	78 58	79 60	81 59	81 57	80 64	81 57	82 58	81 57	82 56	82 57	82 57	82 59	80 62	82 63	78 58	79 61	82 67	80 65	81 65	78 63	79 60	78 53	81 68	79 71			80.4 61.2	
NIU RIOGE 1035	MAX MIN	70 56	71 56	71 56	77 63	78 62	79 60	78 59	78 56	77 56	80 57	78 57	77 56	80 58	80 57	81 57	80 56	79 56	77 56															
WAIHAI LOWER 1054	MAX MIN	74 50	70 49	70 60	74 65	74 62	72 59	71 60	71 60	68 60	71 64	71 58	71 60	71 59	72 62	71 60	72 61	73 58	71 59	67 58	70 61	74 58	72 65	71 62	72 62	72 55	71 51	72 50	72 58	72 59			71.4 58.8	
* * *																																		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	74 53	77 50	78 51	78 60			82 62	79 62	80 62	79 63	78 61				79 60	79 56	80 55	81 55	80 55		80 57	81 58	71 62	73 61	75 59				80 54	80 63		78.3 58.2	
HONOLULU WSO 703 AP	MAX MIN	76 55	77 54	78 64	78 71	79 66	75 63	78 66	79 64	79 69	78 68	79 67	77 67	80 69	80 67	80 59	78 65	77 61	73 62	78 64	79 61	79 66	73 66	73 64	75 65	78 62	75 57	75 58	77 66	78 71			77.2 64.0	
HONOLULU SUBSTA 704	MAX MIN	73 61	77 62	76 69	78 71	80 69	74 67	77 69	76 70	75 69	76 69	74 68	73 68	75 69	76 66	78 68	76 65	69 64	73 65	71 66	79 65	73 66	73 65	74 67	74 65	80 66	76 66	76 64	77 64	78 72			75.6 66.8	
KAHUKU 912	MAX MIN																																	
KANEHE MAUKA 781	MAX MIN	72 60	75 59	75 60	75 65	75 71	79 65	73 66	73 66	72 68	73 69	77 66	74 66	74 67	75 66	76 66	77 67	79 63	78 63	78 65	70 65	74 63	73 66	77 66	76 66	70 63	70 60	76 64	76 65	71 65	79 71		74.6 65.1	
LUALUALEI 804	MAX MIN	77 59	77 58	77 55	78 58	80 69	77 66	80 67	80 69	82 70	79 65	79 65	76 67	78 68	81 65	79 62	80 62	81 61	77 62	75 66	78 66	81 62	82 62	72 64	78 66	75 62	80 60	79 61	81 60	80 71			78.6 63.6	
MAKAPUU POINT 724	MAX MIN	70 61	71 60	71 67	74 69	74 68	75 65	71 60	72 67	71 67	71 65	70 65	70 65	71 68	72 68	71 64	74 65	73 64	73 64	73 65	70 65	72 64	74 66	68 65	69 64	71 65	73 62	73 62	73 62	76 64	76 69		72.0 64.8	
OPAULA 670	MAX MIN	80 52	82 50	77 55	70 58	72 63	71 59	75 57	72 57	72 59	72 56	71 55	71 59	74 64	72 57	77 52	78 55	79 53	80 55	80 55	79 55	80 56	80 58	79 57	80 58	80 57	72 55	76 55	80 55	80 55			76.3 56.6	
PRI WAIHANA 820.2	MAX MIN	70 53	74 51	76 54	79 59	71 62	72 60	75 60	78 60	78 60	76 62	73 63	73 63	72 65	78 62	78 58	79 57	81 55	80 55	69 59	74 57	76 58	82 58	69 61	75 62	71 60			80 52	78 62		75.6 58.8		
WAIALEE 896.3	MAX MIN	73 60	76 61	76 64	76 61	76 64	76 65	74 65	77 65	74 67	74 66	76 65	76 65	76 64	77 67	77 68	78 63	78 62	71 63	72 63	76 63	77 64	73 65	77 66	74 66	76 65	77 65	78 63	81 63	81 64			76.0 64.0	
WAIALUA 847	MAX MIN	72 54	76 54	76 58	79 62	75 68	74 63	73 60	77 57	76 58	75 59	78 59	75 58	74 57	77 55	80 59	81 57	78 56	78 55	68 58	74 56	79 58	83 63	74 65	77 67	75 60	75 60	74 57	76 56	82 63			76.3 59.1	
WAIKIKI 717.2	MAX MIN	77 52	78 53	79 62	78 65	79 69	81 63	78 65	81 66	79 68	80 68	79 66	79 66	78 69	81 67	80 60	77 62	79 61	81 59	79 64	78 63	79 60	81 65	77 66	79 66	80 65	80 63	80 69	81 65	72 67			79.3 63.8	
WAIMANALO EXP FARM	MAX MIN	76 55	75 55	77 57	76 66	75 70	76 65	74 67	76 69	76 67	76 69	78 68	78 69	77 69	78 69	78 69	78 68	78 62	77 64	77 63	76 62	76 60	77 65	73 63	75 64	75 62	79 62	77 65	76 62	76 70			76.5 64.6	
* * *																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	71 58	73 59	74 59	77 62	73 71	76 66	72 66	75 66	75 67	75 67	75 66	75 66	72 69	77 67	76 58	79 58	78 65	73 62	67 61	74 66	77 62	80 62		70 66	73 66	74 62	73 65	77 62	77 62			74.6 63.8	
* * *																																		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	62 53	70 53	79 56	74 55			71 60	68 59	69 58	69 61	70 54				73 52	75 55	72 54	78 55	71 54		74 55	77 55	69 60	67 60	70 61			71 54	66 56			71.2 56.2	
* * *																																		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	51 31	59 33	60 39	60 46	58 43	53 43	57 40	55 40	57 40	55 38	57 39	57 39	57 43	56 41	62 40	62 36	61 33	57 34	49 34	53 32	57 35	52 36	54 44	54 43	59 43	49 38	58 35	58 37	65 39			56.6 38.3	
HALEAKALA SUMMIT 338.4	MAX MIN	44 37	50 35	53 38				53 35	48 37	57 38	43 35	46 36			44 39	48 34	53 37	52 35				53 31	52 32	41 34	39 33				55 37	50 43			48.2 35.7	
HANA AIRPORT 355	MAX MIN	74 55	77 54	76 59	83 64	83 65	76 63	73 62	78 62	74 63	77 64	76 60	76 60	79 65	77 62	78 65	78 65	80 64	78 59	75 64	78 67	75 67	75 64	76 64	78 64	76 64	76 58							

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Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX MIN	65 49	64 47	65 48	70 49	72 62	65 56	66 55	67 55	67 56	70 57	67 50	68 50	68 51	71 50	69 51	69 51	70 52	66 53	65 52	65 51	69 52	72 54	68 58	69 59	72 62	69 51	68 50	70 51	68 56		68.1 53.0	
LAHAINA 361	MAX MIN	80 57	79 57	78 62	78 62	80 62	82 64	82 64	83 63	83 63	82 63	84 60	80 62	84 65	82 61	84 60	81 59	79 60	76 61	80 59	80 59	82 60	76 62	75 64	78 64	78 65	82 63	82 61	83 59	84 64		80.5 61.6	
HAILUKU 386	MAX MIN	75 56	73 57	75 59	77 64			83 65	75 66	73 65	74 67	76 65		76 64	77 60	80 60	79 63	75 63			77 60	79 60	73 64	74 65	77 64			80 60	84 62		76.8 62.3		
* * *																																	
ISLAND OF HAWAII																																	
MAINA 214	MAX MIN	77 58	73 59	70 60	76 63	82 65	88 65	70 64	71 63	75 62	75 64	73 62	75 63	74 61	73 59	75 61	77 61	76 61	76 61	73 59	73 59	75 58	78 61	80 64	81 64	80 65	71 61	74 62	77 60	79 62		75.8 61.6	
HAWAII VOLCNS NP HC 54	MAX MIN	60 49	59 45	62 47	64 49	62 58		71 53			66 52	58 46	62 48		58 48	64 46	62 45	65 49		64 44	58 45	58 45	63 54	68 55	67 52	65 55		66 48	61 48	69 53		63.1 49.3	
HILD WSO 87 AP	MAX MIN	76 59	78 59	78 63	83 63	83 68	74 67	76 65	77 64	78 64	76 64	78 59	76 63	78 62	80 61	78 61	80 59	77 59	77 58	75 61	78 61	77 64	82 63	84 66	82 61	80 62	78 61	79 61	82 62	85 67		78.8 62.5	
KAINALIU 73.2	MAX MIN	71 53	72 54	73 55	74 61	80 64	81 59	72 62	72 59	75 59	75 60	73 58	74 57	71 57	75 58	75 58	73 56	75 55	74 55	73 57	70 56	72 57	77 61	77 60	77 61	77 62	74 61	74 56	75 57	79 58		74.3 58.0	
KAMUELA 192.2	MAX MIN	67 39	66 42	68 45	74 50	78 54	75 57	65 57	68 55	73 56	69 54	70 54	65 53	68 55	67 54	68 49	72 52	74 46	72 46	66 48	68 49	68 44	75 47	74 52	76 54	74 46	65 42	74 44	73 44	75 46		70.6 49.7	
KEAAU 92	MAX MIN	74 59	75 59	75 59	77 63	81 59	83 68	75 65	74 64	75 63	75 64	72 59	74 60	74 62	75 62	75 61	77 60	77 61	74 59	73 59	72 61	75 61	78 63	80 64	81 62	77 60	76 61	77 64	80 60		76.0 61.5		
KEALAKEKUA 26.2	MAX MIN	72 55	70 57	74 56	74 62	80 67	82 60	74 63	70 61	77 60	77 61	73 62	75 60	72 59	76 58	75 59	72 58	76 57	76 57	72 59	70 58	72 57	78 61	77 62	77 63	78 65	69 55	77 58	75 59	79 60		74.8 59.7	
KOHALA MISSION 175.1	MAX MIN	75 57	76 58	74 60	75 62	79 64	80 60	71 63	72 64	76 63	74 64	74 63	74 63	77 62	70 64	74 63	76 60	76 59	75 59	69 59	72 61	74 59	76 60	79 63	79 65	77 65	70 60	73 58	76 60	78 61		74.9 61.4	
KONA (KAILUA) 68.3	MAX MIN	78 60	79 61	82 61	81 64			83 66	77 66	81 66	82 66	81 66		80 63	80 64	77 63	81 62	80 62				80 62	82 65	82 67	82 67	81 70	71 61		82 62	83 65		80.2 64.0	
KULANI CAMP 79	MAX MIN	60 48	57 39	58 40	63 45	62 45	71 47	70 47	66 46	63 48	62 47	55 40	56 43	56 43	55 41	58 43		60 40	60 40	61 45	54 39	53 42	59 46	65 54	69 48	68 52	63 42	59 39	62 42	66 46		61.1 44.2	
MAUNA LOA SLOPE OBS	MAX MIN	46 29	48 31	49 32	46 36	47 34	46 33	40 34	45 32	45 30	41 27	45 25	39 30	45 28	48 30	51 32	49 28	47 26	45 29	45 27	47 28	48 29	47 30	47 33	46 32	47 29	47 28	53 34	53 31	56 40		46.8 30.6	
MOUNTAIN VIEW 91	MAX MIN	70 54	69 51	71 51	72 57	80 56	80 56	80 56	60 56	68 60	71 58	71 55	64 55	69 55	69 55	71 55	71 55	73 55	70 53	70 52	70 52	76 55	76 61	75 58	77 61	74 54	72 54	72 54	78 57		72.1 55.3		
NAALEHU 14	MAX MIN	75 57	74 60	75 63	74 66	74 66	85 64	85 64	74 65	78 66	76 65	74 62	74 62	75 63	75 62	76 62	75 61	74 60	74 60	76 62	75 62	75 62	77 63	75 65	77 64	77 63	77 65	79 66	79 60	77 60		76.2 63.0	
OOKALA 223	MAX MIN	72 58	72 59	71 59	74 60	81 67	81 64	69 64	71 63	72 63	75 62	70 61	75 61	74 62	70 62	74 62	76 60	75 60	72 60	66 54	66 61	76 61	76 63	79 61	78 63	78 60	75 60	75 60	76 61		73.8 61.2		
OPIHIHALE 2 24.1	MAX MIN	70 52	71 53	73 53	84 64	79 57	71 57	71 59	73 58	75 58	72 59	72 57	70 53	74 53	73 53	71 53	72 53	74 53	70 54	67 54							74 53	74 53	76 54	79 55	79 57		73.5 55.2
PAHALA 21	MAX MIN	74 57	74 57	77 58				87 63	77 63	77 62	76 61	75 59				77 57	76 58	76 57	74 57			76 56	76 60	77 63	77 61				86 59	78 61		77.2 59.5	
PUAKO 95.1	MAX MIN	77 58	79 58	82 61	78 63	86 65	83 67	79 68	77 86	81 67	81 68	83 67	81 67	78 64	81 63	83 61	82 62	80 61	82 61	82 60	83 61	83 60	79 61	83 67	84 67	82 68	76 58	83 60	79 59	83 62		80.9 63.3	
UPOLU POINT USCG 159.2	MAX MIN	78 62	78 63	77 63	79 63	83 65	83 67	83 66	82 65	77 68	77 65	81 66	76 66	76 67	74 66	77 66	75 66	78 65	78 65	78 62	78 60	78 62	79 66	80 61	80 66	80 66	80 64	80 61	76 63	81 67		78.6 64.5	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WSD 1020.1 AP	EVAP WIND MAX MIN	.14 55 69 48	.18 63 69 49	.19 150 68 49	.24 178 69 57	- 263 69 59	.17 83 73 57	.18 161 72 57	.27 189 73 57	.27 205 74 59	.16 282 70 59	.22 262 74 55	.30 272 75 54	.37 271 71 56	.22 261 75 56	.29 170 75 57	.29 188 75 58	.25 140 74 53	.19 208 73 53	.19 258 71 54	.32 114 71 55	.17 81 79 54	- 99 75 54	.21 70 79 57	.17 55 73 56	.01 21 74 50	.21 69 77 49	.24 71 77 57	.19 191 78 59		6.328 458.4 73.8 55.1		
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP WIND MAX MIN	.07 18 70 53	.15 21 84 53	.15 21 81 54	.09 65 77 60	.14 104 81 66	.15 34 82 60	.15 22 76 60	.15 22 83 60	.15 22 84 60	.20 44 81 61	.23 49 82 59	.15 48 79 59	.21 49 77 59	.22 38 83 58	.21 29 83 58	.20 22 85 58	.15 16 85 59	.21 20 81 59	.19 34 80 56	.15 30 80 57	.19 25 84 58	.44 39 82 60	- 13 70 62	.06 10 73 60	.07 3 76 60	.16 21 83 59	.20 26 86 59	.19 26 87 58	.20 54 90 65	5.008 926 80.7 59.1		

See Reference Notes Following Station Index

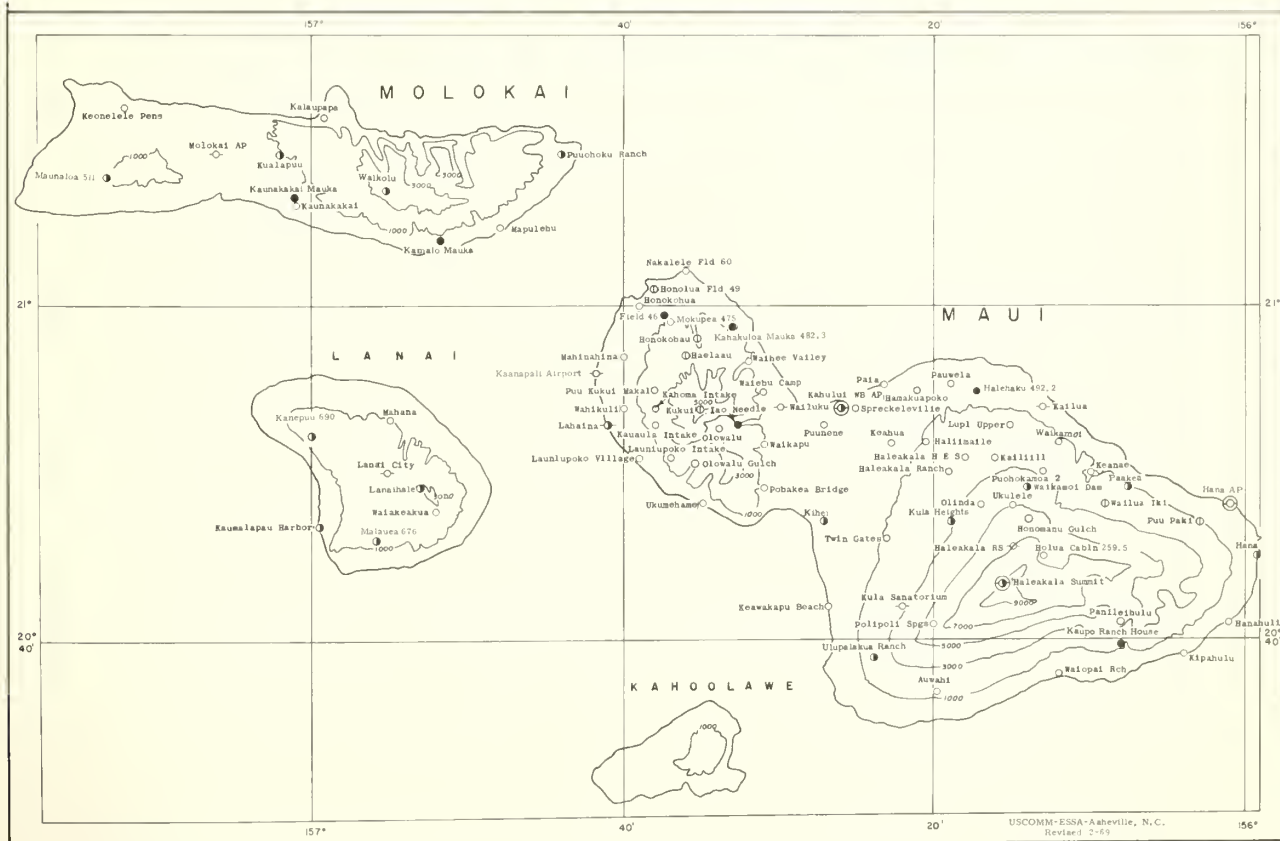
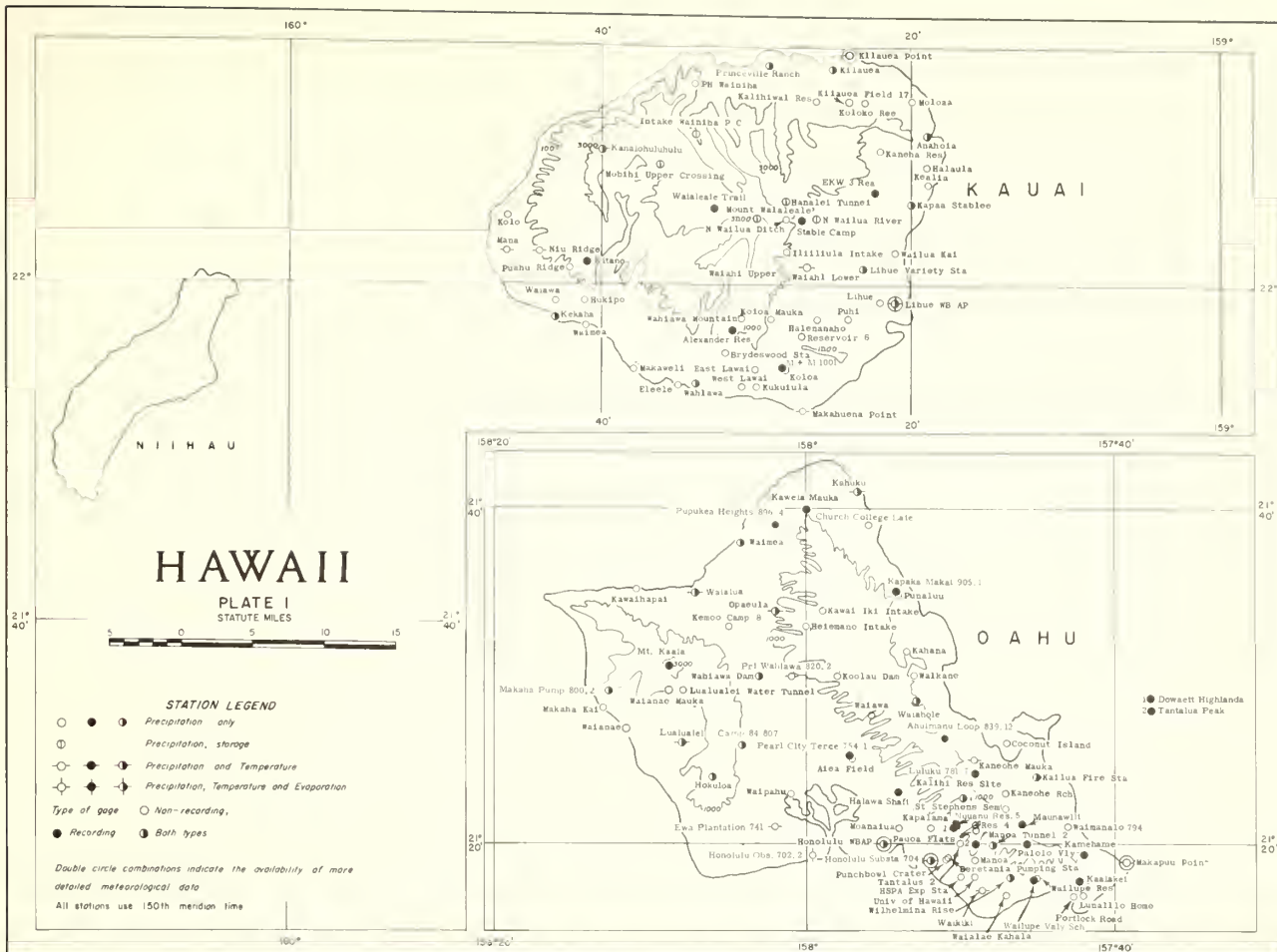
HAWAII
FEBRUARY 197

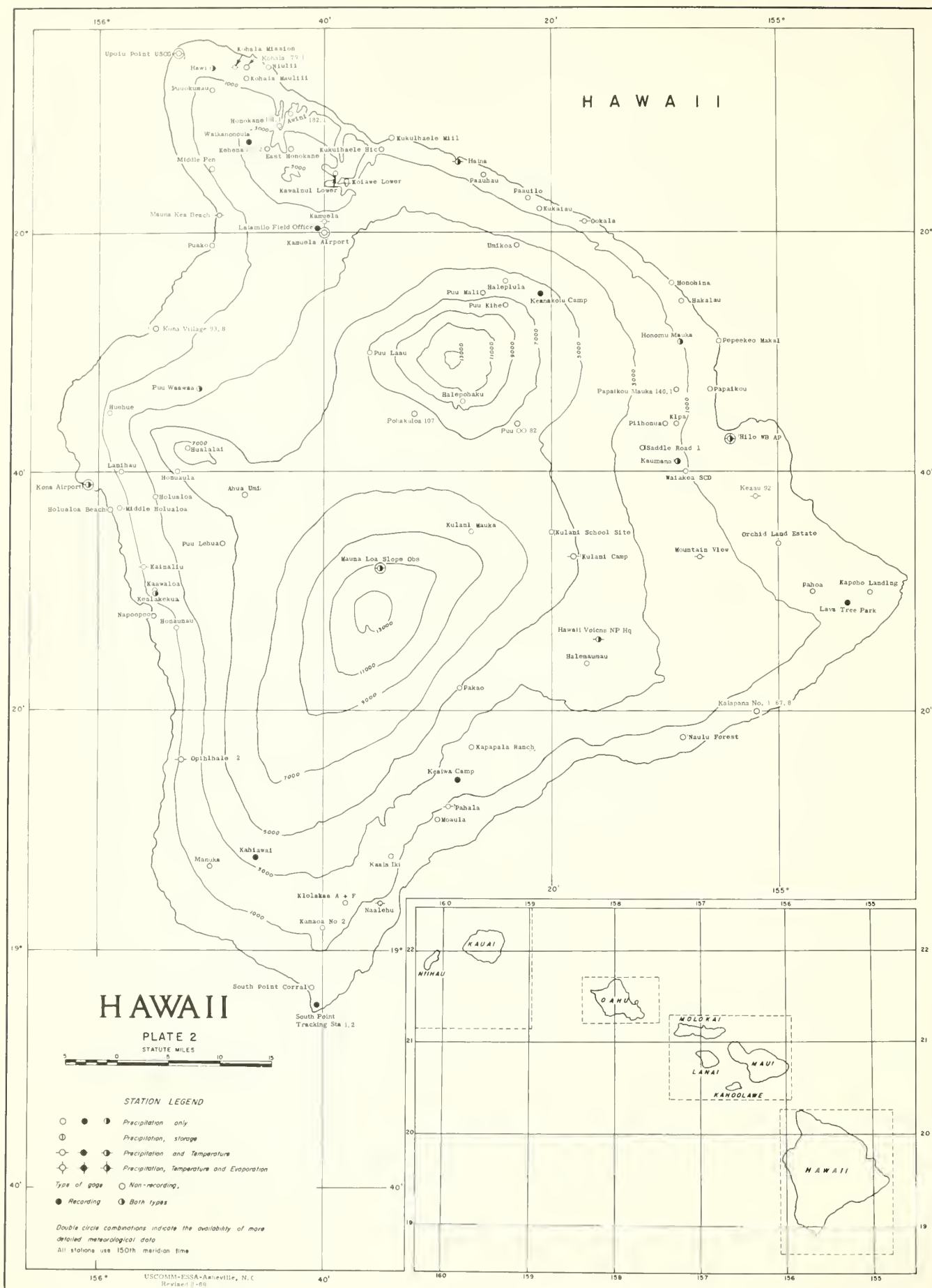
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STATION INDEX

HAWAII
FEBRUARY 1972

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER
								TEMP.	PRECIP.	EVAP.										TEMP.	PRECIP.	EVAP.	
ISLAND OF HAWAII																							
HOLA LA 8	A 8407	03 KAU		3 19 11	155 30	601					HAWAIIAN RANCH CO	PUU LAHI 102.1	A 8452	05 HAWAII		5 19 50	155 30	7440					STATE DIV OF FISH-GAME
MOJUPAIN 114 91	A 8552	02 KAU		2 19 33	155 07	1530	BA	BA			PUNA SUGAR CO	PUU LEMUA 73	A 8460	04 N KONA		2 19 34	155 49	4880					W.M. GREENWELL RANCH
NALALEU 14	A 8580	03 KAU		3 19 04	155 35	673	BA	BA			HUTCHINSON SUGAR CO	PUU MALI 113	A 8515	01 HAWAII		2 19 55	155 26	6960					KUKAIAU RANCH CO
NAPUOPO 28	A 8607	05 KONA		4 19 28	155 55	395	TA				KONA EXPERIMENT STA	PUU OI 92	A 8550	02 S HILO		2 19 44	155 23	6340					MISS JACKIE BENLEHR
NIHIL 179	A 8606	01 N KONA		2 20 01	155 17	430	TA				LAUPAHOEHOE SUGAR CO	PUU WAAHAA 94.1	A 8555	05 N KONA		2 19 47	155 51	2520	TA				OILLINGHAM RANCH INC
OTAKA 223	A 8608	02 N HILO		1 20 14	155 45	75	BA				MISS C. LEONARD	SADOLE ROAD 1 84	A 8550	02 S HILO		2 19 42	155 12	2340					ROAD OF WTR SUPPLY
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				SQUAD OF WATER SUPPLY	SOUTH POINT CORRAL 3	A 8675	03 KAU		3 18 57	155 41	300					HAWAIIAN RANCH COMPANY
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				KUKAIAU RANCH CO
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				U S COAST GUARD
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				SHINICHI KANESHIRO
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				KAHUA RANCH
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
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PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 118	UMUKA 118	A 8780	01 HAWAII		1 19 59	155 23	3420	TA				
PEPEKEHE 2 24.1	A 8609	05 KONA		4 19 10	155 53	1270	TA				PUUOHI 1												





U.S. DEPARTMENT OF COMMERCE
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CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

MARCH 1972

Volume 68 No. 3

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet		No. of Days			
										Max.	Min.	Total	Departure From Normal					Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
ISLAND OF KAUAI																							
ANAHOLA 1114	A	64.9	48.1	56.5		73	9	36	31	0	0	0	0	3.36	- 2.85	1.60	3	.0	0		3	1	
KANALOHULU 1075														11.89		4.06	3	.0	0	12	7	4	
KAPAA STABLES 1104	A													3.18		1.50	3	.0	0		2	1	
KILAUEA FIELD 17 1135	A													3.83	- 6.05			.0	0				
KILAUEA POINT 1133		77.7	68.4	73.1		85	22	60	28	0	0	0	0	5.28		2.30	2	.0	0	10	2		
KOLDA 936	A													2.75	- 3.88	1.64	3	.0	0		2	1	
LIHUE WSD 1020.1 AP	//R	79.3	65.5	72.4	1.4	86	14	56	31	0	0	0	0	1.99	- 2.57	1.27	2	.0	0	4	1	1	
MANA 1026		81.6	63.3	72.5	1.3	89	15	57	20	0	0	0	0	3.76	1.11	2.42	3	.0	0	5	2	1	
N WAILUA OITCH 1051	A													8.96		2.56	3	.0	0		5	9	
PH WAINIHA 1115														8.41	- 6.04	2.42	3	.0	0	11	8	2	
PUEHU RIDGE 1040														5.51		2.80	3	.0	0		7	4	
WAIHAWA 930	A													3.48	- .02	1.94	3	.0	0		2	1	
WAIHAI LOWER 1054		78.7	59.5	69.1		85	10	47	31	0	0	0	0	4.98		2.10	3	.0	0	7	3	1	
WAIHEA 947														3.49	1.13	2.12	3	.0	0	5	2	1	
ISLAND				68.7										5.06				.0					
ISLAND OF OAHU																							
HONOLULU OBSERV 702.2	R	79.6	65.9	72.8	.0	85	20	60	30+	0	0	0	0	2.17		1.20	3	.0	0		5	1	
HONOLULU WSD 703 AP														2.45	- .44	1.83	3	.0	0		4	1	
KAHUKU 912	A													3.17	- 1.57			.0	0				
KANEOME MAUKA 781	A	77.7M	66.6M	72.2M	.9	85	25	61	8	0	0	0	0	5.30	- 1.96	1.70	21	.0	0	13	2	1	
KOOLAU OAM 833	A													4.72	- 5.26	1.59	3	.0	0				
LUALUALEI 804	A	79.9	64.5	72.2		84	20+	57	30	0	0	0	0	3.22		1.45	3	.0	0			1	
MAKAPUU POINT 724	A	76.4	66.0	71.2		80	27+	62	30	0	0	0	0	3.18	- .74	1.71	3	.0	0	3	2	1	
NUUANU RES 4 783														7.10	- 4.91	3.48	3	.0	0	9	2	2	
OPAUELA 870	A	78.5M	59.4M	69.0M	2.2	81	30+	55	30	0	0	0	0	1.94	- 4.27	.80	29	.0	0		2	0	
PALOLO VALLEY 718	R													5.54	- 7.31	2.62	3	.0	0	8	2	2	
PRI WAIHAWA 820.2	A	79.4	59.7	69.6		85	28+	53	30	0	0	0	0	2.28		1.22	3	.0	0		1	1	
WAIHAWA DAM 863	A													3.39		1.87	3	.0	0		1	1	
WAIHOLE 837	A													7.50	- 7.30	3.22	3	.0	0				
WAIKALEE 896.3	A	79.6	66.2	72.9		83	23+	61	30	0	0	0	0	3.18		1.23	3	.0	0	6	2	1	
WAIKALEE 847	A	79.2	61.3	70.3	.0	85	15+	55	9	0	0	0	0	4.98	1.48	2.22	3	.0	0	8	3	2	
WAIKIKI 717.2		80.7M	65.7M	73.2M		85	17	59	31+	0	0	0	0	2.48		1.48	3	.0	0	3	2	1	
WAIMANALO EXP FARM		78.8	64.6	71.7		83	15+	56	30	0	0	0	0	3.08		1.90	3	.0	0	4	1	1	
WAIKAPU 750	A													2.07	- 1.11	1.25	3	.0	0				
ISLAND				71.5										3.76				.0					
ISLAND OF MOLOKAI																							
KUALAPUU 534	A													5.33	.77			.0	0				
MAPULEHU 542														3.73	- .49			.0	0		7	2	
MAUNALOA 511	A													3.54	.23			.0	0				
MOLOKAI AP-524	A	77.0	66.1	71.6		82	18	58	31+	0	0	0	0	3.80		2.54	4	.0	0	5	1	1	
ISLAND				71.6										4.10				.0					
ISLAND OF LANAI																							
LANAI CITY 672	A	M	M	M		79	24+	54	30	0	0	0	0	5.40	1.07			.0	0				
ISLAND														5.40				.0					
ISLAND OF MAUI																							
HALEAKALA 8 E S 434	A	61.5	42.5	52.0		72	22	34	26	0	0	0	0	1.90	- 7.31	.50	30	.0	0		5	1	
HALEAKALA RS 338		81.2M	63.0M	72.1M		86	24	58	10+	0	0	0	0	3.33		1.53	5	.0	0		5	2	
HANA AIRPORT 355														4.18		1.43	28	.0	0		8	2	
HONOKOHUA 493	A													5.82	1.74			.0	0				
KAANAPALI AIRPORT		78.5	65.5	72.0		84	13	60	31+	0	0	0	0	4.62		3.59	4	.0	0		6	1	
KAHULUI WSD 398 AP	R	81.1	62.9	72.0	- .2	86	18	56	31+	0	0	0	0	2.00	- .22	1.43	4	.0	0		4	1	
KAILUA 446		77.0	61.6	69.3	1.2	86	8	57	31+	0	0	0	0	2.16	-10.02	.60	18	.0	0		7	1	
KEANAE 346														1.80	-20.36			.0	0				
KIPAHULU 258	A													6.69	- 2.87	2.11	30	.0	0		9	4	
KULA SANATORIUM 267		70.1	55.9	63.0	1.8	80	3	50	30	0	0	0	0	4.93	1.63	1.86	5	.0	0		8	2	
LAHAINA 361		81.3	64.9	73.1		84	21+	59	31+	0	0	0	0	3.86	1.93	2.95	4	.0	0		1	1	
PAIA 406														2.12	- 1.93	.66	5	.0	0		2	0	
WAILUKU 386	A	79.2M	65.0M	72.1M	.6	83	23+	59	9	0	0	0	0	3.30	- 1.45			.0	0				
ISLAND				68.2										3.59				.0					
ISLAND OF HAWAII																							
HAINE 214		79.3	63.6	71.5	2.0	83	24+	59	31+	0	0	0	0	2.64	- 5.92	1.39	29	.0	0		4	2	
HAWAII VOLCAN NP HO 54	R	68.9M	50.8M	59.9M	2.0	75	8	44	27	0	0	0	0	4.90	- 7.08			.0	0				
HILD WSD 87 AP		83.7	63.9	73.8	3.2	93	23	57	10	1	0	0	0	.88	-13.82	.35	28	.0	0		3	0	
HUEHUE 92.1	A													3.52	- 1.19			.0	0				
KATNALIU 73.2	A	76.1	59.5	67.8		81	3	54	6	0	0	0	0	4.89	- .39	2.41	5	.0	0		6	2	

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 29

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
MARCH

1972

Station		Temperature											Precipitation											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
											Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											40° or Above	32° or Below	32° or Below	0° or Below										
KEAAU 92	A	81.2	62.0	71.6	1.3	88	24	55	3		0	0	0	0	1.41	-14.17	.64	29	.0	0		4	1	0
KEALAKEKUA 26.2		77.0	60.8	68.9		82	3	56	6		0	0	0	0	5.48		2.53	5	.0	0		3	2	2
KONA (KAILUA) 68.3		82.0M	65.8M	73.9M		85	3	60	31		0	0	0	0	3.14				.0	0				
KUKUIHAELE HIC 199															3.40	- 6.64	1.45	29	.0	0		5	2	1
KULANI CAMP 79		66.8	45.0	55.9		76	9	36	24		0	0	0	0	2.22		.84	29	.0	0		6	1	0
PAHALA 21	A														3.30	- 2.28			.0	0				
POHAKULOA 107	A	78.5M	61.0M	69.8M	.9	83	6	58	16+		0	0	0	0	1.24				.0	0				
PJAKO 95.1	A														2.41		1.01	29	.0	0		5	2	1
PUU WAAWAA 94.1	A	82.1	64.6	73.4		86	24+	59	31		0	0	0	0	3.21	.00	1.17	29	.0	0				
UMIKOA 118															2.55	-10.18	.64	29	.0	0		6	2	0
WAIKAE SCD 88.2															1.84		.81	29	.0	0		6	1	0
ISLAND				68.7											2.94				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 93° ON THE 23D AT HILO WSO 87 AP, HAWAII

LOWEST TEMPERATURE: 25° ON THE 30TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 16.23 INCHES AT PANILEIHULU 259.2, MAUI

LEAST TOTAL PRECIPITATION: .56 INCH AT PUU OO 82, HAWAII

GREATEST ONE-DAY PRECIPITATION: 5.20 INCHES ON THE 5TH AT AUWAHI 252, MAUI

SPECIAL WEATHER SUMMARY

The weather in March was underscored by high winds and rain during the first few days and by a later spell of dry mild weather. Trade winds were infrequent and the southerly flow that replaced them occasionally blanketed the State with volcanic haze from an eruption on Hawaii Island.

February's wind and rain continued into the first 4 days of March. Strong southerly winds converging into a low pressure area which moved from about 800 miles northwest of Honolulu on the 1st, to 450 miles north of Honolulu on the 4th, buffeted all the islands and brought widespread rain. High particulate matter measurements in Honolulu confirmed the northward spread of haze from the Mauna Ulu Volcano eruption on Hawaii Island, and the combination of haze and rain gave Hawaiian skies an unusually gloomy appearance.

Wind and rain damage was light. Some leafy crops were slightly bruised. On Oahu the southerly winds, made stronger and more turbulent in crossing the Koolau Mountains, tore shingles off a home at Punaluu; while on Hawaii Island, they unroofed a garage in Kaumana and part of a home in Puueo, and generated unusually rough seas that halted boating in Kailua Bay on the 4th and 5th. Also on the 5th a man picking opihi, a shellfish, drowned when an unexpectedly large wave swept him off the rocks near Halona Blow Hole, Oahu.

During the remainder of the month, fronts and squall lines migrating eastward across the Pacific weakened dramatically and turned northeastward just west of the Hawaiian Islands. This change in track of the weather systems, coupled with the absence of low pressure areas higher in the atmosphere and the infrequency of trade winds, gave rise to a dry spell over the ordinarily wet mountains and "windward" (relative to the northeasterly trades) slopes of the islands.

Particularly affected was the eastern third of Hawaii Island, from the Hamakua coast southward through the Hilo, Puna, and Kau Districts. On the 16th a forest fire burned about 15 acres of ohia trees and brush at Orchard Manor in Puna, Hawaii Island. On the 17th the Mayor

of Hawaii Island issued the first of three "drought disaster" proclamations, thus authorizing the trucking of emergency household water at State expense to families in Puna's Volcano and Glenwood areas, which depend upon roof catchment for domestic water supplies. The area thus designated was extended to Upper Puna, between Glenwood and Pahoa, on the 25th and 5 days later to Kapoho, Kaueleau, and Kalapana, although showers beginning on the 26th and continuing through the end of the month brought some relief.

On the evening of the 28th snow fell down to the 9,000-foot level on Mauna Loa and Mauna Kea; and on Mauna Loa, was drifted into snow banks 4 feet high by the strong southwesterly winds.

Hilo Airport recorded its driest March (see Table I) and its warmest March day of record. Only 8 days had measurable rain (.01 inch or more), as compared to a March average of 24 days; and the 93° observed on the 23d exceeded by 5° the previous March high of 88° (in 26 years of record) and came within 1° of its peak high of 94°.

On all the major islands monthly rainfall totals ran well above average in some areas and well below average in others. With southerly winds replacing the northeasterly trades for most of the month, the mean rainfall patterns were also reversed, the ordinarily drier "leeward" areas tending to be wetter than normal and the normally wetter mountain and "windward" areas drier than normal. Thus, while gages in the western sections of Kauai, Oahu, Maui, and Hawaii Island caught well over their March averages (the Lahaina, Kihei, and Waipai areas had twice their normal for March), eastern and mountain areas were relatively dry, with many stations on the windward (eastern and northeastern) slopes of Maui and Hawaii Island reporting less than 25 percent and some less than 10 percent of their average March rainfall.

As Table I shows, a number of gages with long periods of record had less rainfall than in any previous March.

H A W A I I - M A R C H 1972

SPECIAL WEATHER SUMMARY - Continued

TABLE I

Stations with Less Rain in March 1972 than
in Any Previous March

(25 years of record or more, only)

<u>Station</u>	<u>Length of Record (Yrs.)</u>	<u>Previous Least March Total (Inches)</u>	<u>March 1972 (Inches)</u>
MAUI			
Kailili	48	2.60	1.93
Keanae	68	2.33	1.80
Puohokamoa 2	50	6.53	1.40
Waikamoi	66	3.13	1.70
HAWAII			
Hilo Airport	30	2.97	.88
Honolulu Mauka	61	3.16	2.89
Kulani Camp	25	3.30	2.22
Kulani School Site	25	1.13	.39
Papaikou	74	1.62	1.52
Papaikou Mauka	47	1.89	1.85
Piihonua	48	2.58	1.60
Waiakea SCD	42	3.29	1.84

TABLE II

Peak Gusts Observed During March 1-4, 1972

<u>Location</u>	<u>Peak Wind Speed (m.p.h.)</u>
KAUAI	
Barking Sands	53
Kokee	46
Lihue Airport	36
OAHU	
Honolulu Airport	30
Kaena Point	52
Kaneohe MCAS	43
MAUI	
Kahului Airport	44
HAWAII	
Hilo Airport	34

H A W A I I - M A R C H 1 9 7 2

SPECIAL WEATHER SUMMARY - Continued

TABLE III

Percent of Trade Winds (NNE through E)
for March 1972 and Mean from Hourly Observation

Station	MARCH 1972 (Percent)	MEAN (Percent)
Honolulu Airport	24	63
Kahului Airport	27	46
Lihue Airport	28	61

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HAWAII
MARCH 1972

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DAILY PRECIPITATION

HAWAII
MARCH 1972

Continued

[illegible]

See reference notes following Station Index.

DAILY PRECIPITATION

Continued

HAWAII
MARCH 1972

Station		Total	Day of Month																																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
KIOLAKAA & F 6	A	6.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.10	*			
KIPA 89.2	A	1.16				.07	T		T	.07			T								.04	.05	.15	.01			.01	T		.13	.52	.11	T			
KOHALA MAULILI 176	A	5.96					3.26		.01	.02											*	.29	.42	.03						.35	1.16	.42	*			
KOHALA MISSION 175.1	A	6.02				2.78	.40		.04		T	2.00										.34	.52	T						.52	1.06	.36	*			
KOIAWE LOWER 196	A	5.40	*	*	1.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.45	*	*	*	*	*	1.75	*			
KONA (KAILUA) 68.3	A	3.14				*	2.00																							.93	.21	*				
KONA VILLAGE 93.8	A	3.14			1.17	.88									.03															.83	.23	*				
KUKAIKU 222	A	3.15				.40	.01			.22	.01				.15							.03	.37			.28	.03			.02	1.30	.33	*			
KUKUIHALE MIC 199	A	3.40				.86	.06		.02	.08					.25							.07	.40							1.45	.21	*				
KUKUIHALE MILL 206	A	2.84				*	.70			.03					.12					*		.10	.43							.02	1.30	.14	*			
KULANI CAMP 79	A	2.22				.32	.10		.04	.04																	.19	.16	.39	.84	.05	.09	*			
KULANI MAIKA 76	A	1.85				.55	.13							.35	*	*	*	*		.01										.82	.35	*	*			
KULANI SCHOOL SITE 78	A	.39	*	*	*	.03	*	*	*	*	*	*					.12	.16															*			
LAINIAU 68.2	A	4.40				1.90	.46																								1.45	.31	*			
MAKANA AU 103	A	3.12						1.64																								1.48	*			
MANUKA 2	A	6.90			.10	*	3.20										.20	T										*	*	*	.60	2.60	.20	*		
MAUNA LOA SLOPE OBS	A	2.48				.86	.70	.08																							.40	.20	.24	*		
MIDDLE HOLUALOA 68.1	A	5.83	*	*	*	4.18				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.65	*	*		
MIDDLE PEN 147.1	A	2.96	*	*	*		1.51			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.45	*	*		
MOAULA 18	A	4.40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.40	*		
MOUNTAIN VIEW 91	A	1.90				.18				.11	.01						.01					.02	.08	.03						.11	.82	.49	.04	*		
NAALEHU 14	A	3.55		T	T	*	1.87			.15	T						.04									*	*	.06		.88	.52	.03	*	*		
NAPPOPOH 78	A	2.32	*	*	*	*	2.32							T																			*			
NEILILI 179	A	3.66			.02	*	1.73															.30	.43								.07	.76	.35	*		
ODKALA 223	A	4.36				.30	T			.33	.02				.01							.09	.40	.01				.36	.03	.01	.01	1.72	.44	.63	*	
OPHIHALE 2 24.1	A	4.38		T	2.38	.07	T	*	T	T	.04	T	T	.05	T	T	.10	T	T						.11	T			.55	.94	.14	T	*			
ORCHID LANE EST 91.5	A	1.89	*	*	.17	*		*	*		.08		.23	*	*	*	.02	T	*	*	*	*	.27	*		.21					.04	.04	.05	1.34	.12	*
PAAHU 217	A	2.56				.51	.04			.08					.03							.04	.27							.09	.15	.01	.01	1.07	.12	*
PAAILLO 221	A	2.47				.32				.15	T				.03							.04	.48	T						.09	.15	.01	.01	1.07	.12	*
PAHALA 21	A	3.30		.01	*	*	1.52			.48												.01			.24					.17	.38	.35	.14	*	*	
PAHOA 65	A	3.08	*	.19	.08	*	1.00		*	*	.22						.09				.05	.15	.05	.07			.27		.14	.21	.27	.28	.01	*		
PAKAO 37	A	6.00	*	*	*	.07	T			T	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		.07	.91	.10	T	
PAPAIKOU 144.1	A	1.52				.15	.02					.01	T																			.91	.05	*		
PAPAIKOU MAUKA 140.1	A	1.85										.01					.01				.08	.08	.45	T										*		
PILIHUWA 89	A	1.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.60	*	*		
PONAHUO 107	A	1.24	*	*	1.24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			*		
PUAKO 95.1	A	2.41	*	*	*	.50	.11								.42																1.01	.37	T	*		
PUU KIME 120	A	2.53	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		2.53	*		
PUU LAU 102.1	A	3.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		3.20	*		
PUU LEHUA 73	A	4.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		4.50	*		
PUU MAI 113	A	1.63	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		1.63	*		
PUU OO 82	A	.56								.03																						.23	.30	*		
PUU WAKAA 94.1	A	3.21	*	*	*	.79	.12				.07																.35	.41	T	T	1.17	.30	T	*		
SAOOLE ROAD 1 84	A	4.15	*	*	.25	*	*	*	*	*	3.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*		.30							*	*	
SOUTH POINT CORRAL 3	A	.47	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			.47	*	
UMIKOA 118	A	2.55				.63				.26					.02															.05	.64	.27	.47	*		
UPOLU POINT USCG 159.2	A	4.21	T	T		1.08	.07														T	T	.10	.14							.16	1.88	.77	*		
WAKAEE SCO 88.2	A	1.84				.15				.04							.03					.03	.02	.15	T			.13	.06	.01	.16	.81	.20	.05	*	

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation								Percent of Possible sunshine	Average sky cover	sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total				
							150TH MERIDIAN														
							02	08	14	20											
HILO WSO 87 AP	14	2.7	7.3	29	SE 02	85	74	62	82	5	5	3	0	0	0	13	54	6.2			
HONOLULU WSO 703 AP	20	2.3	10.9	26	E 19+	82	78	65	74	7	4	3	0	1	0	15	74	6.0			
KAHULUI WSO 398 AP	16	1.6	9.3	31	SW 03	88	82	64	82	4	3	3	0	1	0	11	65	5.2			
LIHUE WSO 1020.1 AP	19	1.9	8.7	29	SW 02	86	80	67	77	5	7	3	0	1	0	16	62	5.9			

DAILY TEMPERATURES

HAWAII
MARCH 1972

Station	Day of Month																																	Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF KAUAI																																		
KANALOHUWU 1075	MAX MIN	65 57	60 57	63 54	63 52	62 51	62 52	61 55	63 46	73 40	69 41	69 54	70 46	67 53	68 55	68 52	68 44	70 43	71 41	68 45	62 45	62 41	65 49	63 45	65 48	65 46	64 45	61 51	61 51	59 49	60 44	64 36	64.9 48.1	
KILAUEA POINT 1133	MAX MIN	74 67	72 69	74 67	80 69	75 68	80 70	74 68	80 69	77 71	80 75	76 69	75 69	81 69	82 71	81 69	77 71	81 71	76 72	79 69	79 70	85 68	79 70	78 64	79 70	78 62	78 70	75 60	74 65	78 68	78 62	77.7 68.4		
LIMUE WSD 1020.1 AP	MAX MIN	78 73	75 67	76 69	78 62	78 62	81 65	81 65	75 59	77 60	83 70	83 69	80 64	81 68	86 71	78 67	80 62	80 66	80 67	80 73	79 67	81 71	83 70	81 67	80 63	79 63	79 66	77 62	77 60	77 59	80 56	79.3 65.5		
MAKAMUEA POINT 940.1	MAX MIN	83 73	75 70	75 66	80 64	77 67	77 64	80 65	80 61	79 60	82 65	84 71	85 67	83 67	85 71	84 70	87 67	82 63	84 65	83 70	81 70	80 72	85 71	89 65	80 65	83 62	84 66	81 66	79 66	85 62	85 58	81 57	81.9 66.9	
HANA 1026	MAX MIN	82 72	81 71	73 65	77 64	78 64	79 62	80 69	82 62	77 58	80 61	83 70	81 61	84 62	85 69	89 64	82 61	83 60	85 59	84 62	87 57	84 60	85 64	84 64	80 62	81 66	82 63	83 62	80 63	81 62	79 59	78 58	81.6 63.3	
NIU RIDGE 1035	MAX MIN	76 60	78 65	79 62	78 63	77 60	75 59	73 64	74 63	73 55	76 63	78 63	79 65	80 65	78 61	78 61	80 59	79 60	78 60	81 61	80 56	79 60	80 65	78 61	75 60	76 58	78 60	77 59	75 61	75 56	72 53	75 58	77.1 60.7	
WAIAMI LOWER 1054	MAX MIN	71 69	71 68	71 60	73 58	71 60	79 58	82 67	82 53	83 60	85 60	83 65	82 58	81 60	84 67	80 64	82 55	82 57	82 58	80 65	78 59	79 60	80 65	80 64	81 57	81 58	78 55	75 55	77 56	76 51	78 47	78.7 59.5		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	81 69	79 69	77 65			79 60	79 65	82 57	78 55	77 58			84 59	83 62	84 61	84 59			83 59	81 59	82 63	83 68	80 58			83 56	84 57	79 62	79 54			81.1 60.7	
HONOLULU WSD 703 AP	MAX MIN	77 71	75 69	73 66	76 65	77 65	80 63	81 69	78 63	77 60	80 65	80 67	81 65	80 68	80 68	80 66	82 65	83 66	83 66	84 68	85 69	80 65	81 71	81 70	80 64	81 66	80 62	79 68	77 68	80 60	79 61	79 61	79.6 65.9	
HONOLULU SUBSTA 704	MAX MIN	77 72	74 69	69 67	75 68	76 67	76 66	79 65	75 65	75 65	80 70	78 68	81 68	77 71	77 71	77 68	82 69	80 70	80 69	78 69	79 70	78 68	79 71	78 68	78 66	77 68	77 66	77 67	76 65	75 63	77 64	75 64	77.1 68.0	
KAHUKU 912	MAX MIN																																	
KANEHOF MAUKA 781	MAX MIN		80 71	77 70	78 68	75 67	79 67	81 65	78 61	77 66	76 65	78 68	77 67	77 66	78 67	78 67	77 66	75 65	79 63	75 63	79 69	75 64	76 64	82 68	81 68	85 66	74 68	75 67	77 70	79 70	78 68	75 65	77.7 66.6	
LUALUALEI 804	MAX MIN	81 72	78 72	78 66	74 66	78 65	78 65	76 69	80 60	79 59	80 60	82 66	81 64	82 65	81 65	80 64	82 65	82 64	82 64	84 67	84 64	81 64	83 65	80 63	76 63	80 63	81 62	81 60	80 62	80 60	76 57	78 58	79.9 64.5	
MAKAPUU POINT 724	MAX MIN	77 70	73 64	71 66	71 66	75 66	77 66	75 65	76 65	76 64	74 65	79 66	80 67	79 68	77 65	78 68	77 68	78 69	77 68	78 66	76 66	76 63	79 69	79 68	79 66	80 67	79 66	79 67	71 64	73 63	72 63	73 63	76.4 66.0	
OPAEULA 870	MAX MIN	80 62	75 60	75 59	73 62	73 62	80 57	80 59	80 64	73 66	71 64	78 61	79 61	80 59	80 61	80 61	80 57	80 58	79 61	80 59	80 58	80 58	80 59	81 57	80 58	76 58	81 55	80 55	81 57	81 55	81 55	81 55	78.5 59.4	
PRI WAIHAWA 820.2	MAX MIN	78 68	80 68	72 65	72 64	74 60	78 59	76 62	76 60	76 54	79 54	82 62	85 60	85 60	82 61	82 61	80 59	80 58	83 58	80 61	85 58	80 61	83 61	77 57	77 57	80 58	80 56	80 61	85 56	81 53	74 54	74 54	79.4 59.7	
WAIALEE 896.3	MAX MIN	81 70	81 72	79 68	77 66	78 67	78 68	79 66	77 66	77 66	79 65	81 66	81 67	82 66	83 66	82 66	83 67	81 68	81 67	82 67	80 67	83 67	83 62	77 62	80 64	79 66	80 66	78 64	75 64	76 61	76 62	79.6 66.2		
WAIALUA 847	MAX MIN	80 70	82 70	80 66	74 65	77 66	75 62	81 63	77 63	75 65	78 57	84 65	78 66	81 60	85 63	85 62	81 58	83 58	84 58	82 60	81 59	81 59	81 64	84 67	79 61	76 61	77 59	78 61	75 61	74 57	74 56	73 56	79.2 61.3	
WAIKIKI 717.2	MAX MIN	80 72	80 70	75 67	72 66	80 66	80 65				82 59	83 64	83 66	83 65	82 65	81 65	84 64	85 61	84 66	85 69	84 68	83 71	83 61	82 61	82 66	82 66	82 66	79 68	77 64	77 67	78 59	78 59	80.7 65.7	
WAIMANALO EXP FARM	MAX MIN	78 71	78 68	75 67	75 66	78 63	78 65	81 67	81 59	78 59	78 61	80 64	83 65	80 64	81 64	83 65	80 64	81 66	80 70	80 68	79 69	80 70	80 64	79 67	80 62	80 59	81 64	76 65	74 63	73 56	74 57	78.8 64.6		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	78 71	78 70	76 70	71 68	75 69	76 66	78 66	79 64	74 61	75 69	78 66	78 67	78 65	80 65	79 63	79 63	82 67	80 68	78 70	77 65	81 66	78 70	77 67	77 66	78 70	79 67	75 65	71 65	69 58	73 58	77.0 66.1		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	74 66	78 64	72 63			72 60	73 60	72 59	72 56	78 57			79 59	79 60	77 58	78 58				78 58	79 59	79 59	79 60					78 61	70 59	67 54			
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	63 45	68 46	68 47	63 50	55 41	55 45	59 47	56 51	67 50	69 46	68 46	66 44	64 43	63 39	63 41	61 39	60 38	61 38	67 44	68 44	69 42	72 39	62 41	62 43	55 34	56 34	54 38	55 45	53 41	48 38	52 37	61.5 42.5	
HALEAKALA SUMMIT 338.4	MAX MIN	52 39	58 42	57 42	47 34	44 27	42 37	47 39	51 42	52 42	48 44	50 37	53 38	58 40	58 39	53 38	54 37	54 47			60 51	63 45	64 38	60 44	55 34	52 30	49 34	56 36	42 30	42 30	41 30	40 32	51.8 38.4	
HANA AIRPORT 355	MAX MIN	82 60	82 64	83 66	82 67	82 64	82 67	83 64	85 62	77 58	79 58	82 62	83 64	81 66	82 62	83 62	82 63	83 64			82 68	82 65	81 61	83 59	86 66	79 63	77 60	79 63	81 65	70 62	79 59	80 62	81.2 63.0	
KAAHAPALI AIRPORT	MAX MIN	80 69	79 69	81 73	77 69	76 71	76 67	78 70	78 64	76 60	78 70	80 63	79 65	84 66	79 64	80 65	80 62	80 66	80 66	81 66	80 62	79 63	81 62	83 69	80 64	79 63	80 63	76 66	72 63	70 60	76 60	76 60	81.1 65.5	
KAHULUI WSD 398 AP	MAX MIN	81 69	83 67	78 70	79 69	83 67	79 65	81 70	76 60	80 56	83 65	82 65	85 65	81 61	82 62	83 61	82 59	85 62	86 61	84 61	83 65	83 61	82 59	80 67	81 61	83 60	80 67	81 67	79 60	78 57	81 54	80.7 62.9		
KAILUA 446	MAX MIN	79 62	79 62	79 63	78 66	80 65	82 61	82 62	82 62	78 57	80 59	81 62	78 61	78 61	78 62	78 61	77 62	76 62	76 64	75 64	75 62	75 62	78 62	81 62	76 62	76 60	77 60	78 63	75 63	77 57	78 62	77.0 61.0		
KEAWAKAPU BEACH 260.2	MAX MIN	86 65	84 66	85 73	80 70	77 68	80 64	83 70	82 62	80 60	82 63	85 60	86 62	85 64	85 61	85 61	85 61	85 60	85 59	87 60	83 58	83 58	86 62	86 69	84 66	82 63	84 60	82 61	82 65	76 57	81 56	82.9 62.8		

See Reference Notes Following Station Index

DAILY TEMPERATURES

Continued

HAWAII
MARCH 1972

Station		Day of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KULA SANATORIUM 267	MAX MIN	70 56	70 57	80 61	74 62	68 62	68 56	69 57	69 53	68 51	70 52	72 57	75 56	72 57	70 56	74 57	70 56	68 54	71 55	72 55	69 52	70 53	68 55	71 58	71 60	71 57	70 55	69 56	69 59	66 57	62 50	68 51	70.1 55.9	
LAHAINA 361	MAX MIN	82 69	80 70	78 73	77 69	81 69	81 68	81 70	82 62	80 60	82 67	83 64	84 64	84 63	83 65	83 64	83 64	84 63	83 64	84 63	83 63	84 63	83 64	81 65	82 67	80 64	82 62	79 64	76 66	73 64	80 59	82 59	81.3 64.9	
WAILUKU 386	MAX MIN	83 64	80 65	82 72			82 63	80 69	80 62	74 59	77 62			82 64	79 67	83 66	79 67	79 68				80 67	78 66	79 65	83 67	82 66		80 63	79 65	71 64	71 60		79.2 65.0	
* * *																																		
ISLAND OF HAWAII																																		
HALEA 214	MAX MIN	80 59	83 65	81 65	81 65	80 59	82 64	80 64	81 68	74 60	75 62	80 65	80 64	79 64	80 65	82 62	80 66	80 62	79 66	78 64	80 65	76 63	79 63	82 64	83 64	79 63	74 64	80 67	80 66	75 65	71 64	80 59	79.3 63.6	
HAWAII VOLCANO NP HO 54	MAX MIN	68 50	69 54	66 55		65 55	74 54	73 55	75 55	69 52	70 50	71 49	74 49	72 46	72 47	73 50	69 52	70 50			70 51	67 51	67 50	68 52	68 52	65 44	69 51	70 50	68 44	70 52	62 54	58 52	67 48	68.9 50.8
HILLO WSO 87 4P	MAX MIN	86 60	86 69	82 70	86 65	82 67	83 61	85 65	76 68	82 66	82 57	86 65	85 63	85 61	84 60	83 60	83 61	84 63	84 65	84 65	83 65	83 66	83 65	87 62	84 64	88 64	84 64	88 63	88 66	81 66	73 66	81 62	80 64	83.7 63.9
KAINALIU 73.2	MAX MIN	77 57	78 59	81 63	79 63	73 66	75 54	75 60	77 55	73 55	76 57	78 60	72 62	77 60	75 61	72 59	76 58	77 60	76 59			77 61	76 62	72 62	74 60	79 59	77 60	80 59	77 59	77 60	71 58	66 55	78.1 59.5	
KAMUELA 192.2	MAX MIN	78 49	79 56	75 55	75 57	75 56	70 52	73 55	74 58	74 44	74 47	75 54	78 52	76 48	75 51	75 46	75 49	71 50	75 57	72 55	70 56	70 55	73 48	73 45	75 45	75 47	73 45	75 44	70 48	69 53	70 42		73.8 50.8	
KEAAU 92	MAX MIN	81 61	83 59	83 55	83 63	82 63	83 63	81 63	83 65	74 65	80 58	84 60	84 63	81 61	82 60	83 62	81 61	80 62	81 64	81 62	81 64	80 64	81 64	88 62	84 63	88 64	84 61	83 62	85 62	82 61	79 63	69 62	78 62	81.2 62.0
KEALAKEUA 26.2	MAX MIN	78 58	79 61	82 63	79 64	74 63	76 56	76 60	78 61	76 59	77 59	78 61	79 63	80 61	78 62	72 60	78 60	78 61	78 60	79 63	75 64	72 62	75 63	80 63	79 61	79 62	78 63	80 61	79 61	78 60	71 59	66 57	78 57	77.0 60.8
KOHAHA MISSION 175.1	MAX MIN	80 63	81 63	80 64	83 65	79 65	78 62	78 68	81 67	78 60	75 61	80 62	81 64	78 63	80 64	81 62	79 63	78 65	78 64			78 65	78 64	74 63	79 62	81 62	80 63	79 62	82 61	82 63	73 60	77 56	78.8 62.9	
KONA (KAILUA) 68.3	MAX MIN	83 65	84 65	85 66			82 64	80 64	84 66	82 65	83 65			84 66	80 68	81 65	83 66	82 67				84 67	81 66	83 70	84 66	84 68		83 66	83 69	76 63	73 62	82 60		82.0 65.8
KULANI CAMP 79	MAX MIN	71 45	71 52	70 49	68 52	68 52	68 49	72 52	72 46	76 46	68 49	74 46	75 47	67 44	65 42	63 42	64 44	64 40	65 40	65 42	65 47	63 46	64 40	66 42	66 36	66 45	66 47	67 44	64 40	65 46	65 49	60 37	51 40	66.8 45.0
MAUNA LOA SLOPE OBS	MAX MIN	56 36	58 42	53 37	51 32	42 31	42 34	48 38	51 35	54 36	52 33	50 32	50 30	50 29	47 29	49 30	52 33	58 37	58 41			57 38	60 40	57 36	57 34	53 35	49 35	52 35	56 36	45 32	34 28	44 30	50.9 34.2	
MOUNTAIN VIEW 91	MAX MIN	77 61	78 58	76 64	79 58	79 58	79 58	80 59	82 58	68 60	79 53	81 54	81 54	81 54	79 56	82 55	78 55	78 56	79 58	79 58	80 60	79 60	79 58	76 58	80 58	80 58	80 57	80 55	80 55	78 55	73 56	73 55	78.0 57.2	
NAALEHU 14	MAX MIN	78 66	79 67	79 67	79 67	82 64	82 64	81 64	80 65	80 64	77 62	77 62	82 63	82 63	78 62	79 62	78 63	78 63	78 63	77 65	78 67	77 68	78 62	78 62	81 62	80 59	80 59	79 62	72 66	75 60	75 60	78.7 63.4		
OOKALA 223	MAX MIN	79 62	81 63	79 64	80 64	80 64	79 62	78 62	80 64	74 60	72 61	79 65	80 66	79 64	78 62	80 61	79 62	78 63	78 62			78 62	78 63	78 63	78 63	74 64	74 68	80 60	74 60	70 60		77.8 60		
OPIHIKALE 2 24.1	MAX MIN	79 60	80 60	82 58	80 59	79 63	75 57	77 59	74 55	75 56	78 56	79 57	80 60	74 63	75 58	77 59	74 59	78 60	79 59			77 62	72 57	75 57	79 53	79 54	80 55	78 56	78 56	78 55	74 56	78 53	76 54	77.3 57.4
PAHAHA 21	MAX MIN	79 62	80 63	81 64			83 63	80 63	81 61	74 64	77 59			81 58	76 60	79 60	80 60				79 60	77 61	77 64	80 61	80 59				79 59	78 61	73 61	73 59		78.5 61.0
PUAKO 95.1	MAX MIN	84 64	82 67	83 66	84 68	82 67	80 61	78 65	84 67	82 61	81 64	83 65	85 65	84 65	83 62	83 62	83 66	84 66	84 70	86 68	83 66	86 66	80 67	84 62	86 63	82 64	82 62	82 61	81 67	78 62	69 60	81 59	82.1 64.6	
UPOLU POINT USCG 159.2	MAX MIN	81 70	81 71	84 69	83 72	78 65	79 72	80 71	82 67	82 67	82 72	80 69	82 67	79 72	85 70	84 70	81 69	80 70	81 68			81 70	81 68	80 70	82 71	83 68	84 70	82 70	82 71	82 68	75 69	73 65	78 66	81.0 69.3

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP WIND MAX MIN	.21 194 78 65	.11 190 72 62	- 124 64 59	.14 67 77 56	.21 133 71 54	.26 69 78 54	.26 100 79 54	.29 71 81 52	.11 53 72 51	.25 105 78 51	.26 88 81 58	.24 74 83 57	.24 66 83 57	- 108 78 60	.19 81 81 61	.20 57 82 55	.24 58 83 55	.31 65 85 58	.29 132 84 59	.36 189 79 58	.29 148 79 58	.28 117 81 58	.22 151 82 60	.35 84 82 55	.31 88 78 55	.30 75 78 54	.05 60 74 54	.10 57 68 54	.07 66 72 54	.21 91 75 51	.28 3027 77.9 46	7.098
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP WIND MAX MIN	.19 55 88 66	.18 54 82 66	.15 58 75 65	- 15 74 64	.20 30 86 62	.20 30 86 62	- 64 82 61	.20 37 87 61	.18 21 82 58	.20 22 88 59	.26 24 90 64	.15 22 93 63	.24 23 92 63	.26 19 94 65	.15 23 89 64	.21 19 92 65	.25 15 92 62	.21 28 90 62	.24 28 91 64	.30 28 89 62	.23 22 86 60	.21 43 90 62	.23 62 84 66	.10 26 82 63	.25 29 89 61	.25 30 92 61	.18 21 87 65	.15 21 85 61	.20 29 75 57	.28 36 85 58	6.568	

See Reference Notes Following Station Index

INDEX

HAWAII
1954
1954[illegible]

STATION INDEX

HAWAII
MARCH 1972

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	
								TEMP.	PRECIP.	EVAP.	SPECIAL										TEMP.	PRECIP.	EVAP.	SPECIAL		
ISLAND OF HAWAII																										
MOAULA 18	A 4407	03	KAU	3 19 11	155 30		600					HAWAIIAN RANCH CO	PUU LAU 102.1	A 8452	05	HAWAIIA	5 19 50	155 36	7440					STATE DIV OF FISH-GAME		
MOUNTAIN VIEW 91	A 5552	02	PUNA	2 19 33	155 07	1530	8A	84				PUNA SUGAR CO	PUU LEMUA 73	A 8460	04	N KONA	4 19 34	155 49	4880					W.M. GREENWELL RANCH		
NALEHU 14	A 4588	03	KAU	8 19 04	155 35	673	8A	84				HUTCHINSON SUGAR CO	PUU MALI 113	A 8515	01	HAWAIIA	1 19 55	155 24	5940					KUPAIAU RANCH CO		
NAPPOPOO 28	A 4697	04	S KONA	4 19 28	155 55	395	7A					KONA EXPERIMENT STA	PUU OO 82	A 8550	02	S HILO	2 19 44	155 23	6340					MISS JACKIE BENLEHR		
NIULII 179	A 4806	01	N KONA	1 20 14	155 45	75	6A					KOHALA CORPORATION	PUU WAHAA 94.1	A 8555	05	N KONA	5 19 47	155 51	2520					WILLINGHAM RANCH INC		
OKALA 223	7131	02	HILO	2 20 01	155 17	430	7A					LAUPAHEH SUGAR CO	SADOLE ROAD 1 84	A 8590	02	S HILO	2 19 42	155 12	2340					ADARO OF WTR SUPPLY		
OPINIAHLE 2 24-1	7166	04	S KONA	4 19 16	155 53	1270	7A					MISS C. LEONARD	SOUTH POINT CORRAL 3	A 8675	03	KAU	3 18 57	155 41	500					HAWAIIAN RANCH COMPANY		
ORCHID LAND EST #1.5	A 7185	02	PUNA	2 19 34	155 00	445	VAR					BOARD OF WATER SUPPLY	UMIKOA 118	8780	01	HAWAIIA	1 19 59	155 23	3420					KUPAIAU RANCH CO		
PAAHUHAU 217	7204	01	HAWAIIA	1 20 05	155 26	415	7A					PAAHUHAU SUGAR CO	UPOU POINT USCC 159.2	8830	01	N KONA	3 20 15	155 53	61	8A				U S COAST GUARD		
PAUULU 221	7312	01	HAWAIIA	1 20 03	155 22	800	7A					HAWAIIA HILL CO	WAIKAE 500 88.2	9025	02	S HILO	2 19 40	155 08	1050	7A				SHINICHI KANESHIRO		
PANALA 21	A 7421	03	KAU	1 19 12	155 29	870	8A	6A				HAWAIIAN AGR CO	WAIKANONOUA 179.6	9350	01	N KONA	1 20 08	155 47	3830	7A					KAHUA RANCH	
PANDA 85	A 7457	02	PUNA	2 19 30	155 57	970	6A					HAWAIIAN RANCH CO.	CLOSED STATIONS													
PARO 37	A 7463	03	KAU	3 19 22	155 28	5000						HAWAIIAN RANCH CO. INC.	ISLAND OF MAUI													
PAPAIAU 144.1	7711	02	S HILO	2 19 47	155 06	200	7A					MAUNA KEA SUGAR CO.	OLDWALU GULCH 377	A 7006	04	LAHAINA	4 20 51	156 36	800						CLOSED 2/29/72	
PAPAIAU MAUI 140.1	7721	02	S HILO	2 19 47	155 08	1270	7A					MAUNA KEA SUGAR CO.	PUU KUKUI MAKA 472	A 8444	04	LAHAINA	4 20 55	156 38	2500						CLOSED 2/29/72	
PEPEKEH MAUI 144	8000	02	S HILO	2 19 51	155 05	100	7A					CLOSED 2/29/72														
PISHONUA 89	A 8051	02	S HILO	2 19 45	155 10	1730						STATE DIV OF FORESTRY	ISLAND OF HAWAII													
PONAKULA 107	A 8063	02	HAWAIIA	1 19 45	155 32	6511	VAR					STATE DIVISION OF PARKS	PEPEKEH MAKA 144	8000	02	S HILO	2 19 51	155 05	100	7A						CLOSED 2/29/72
PUARO 95.1	A 8184	05	KOHALA	5 19 59	155 50	5	8A	8A				ERWIN M. RAPP														
PUU KIH 120	A 8393	01	HAWAIIA	1 19 54	155 24	7550						KUPAIAU RANCH CO														

↓ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "MONTHLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in "F.", precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.

No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates.

++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shows following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing: if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly; usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.

SS Observation time is near sunset.

VAR Observation time is variable.

W1 Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

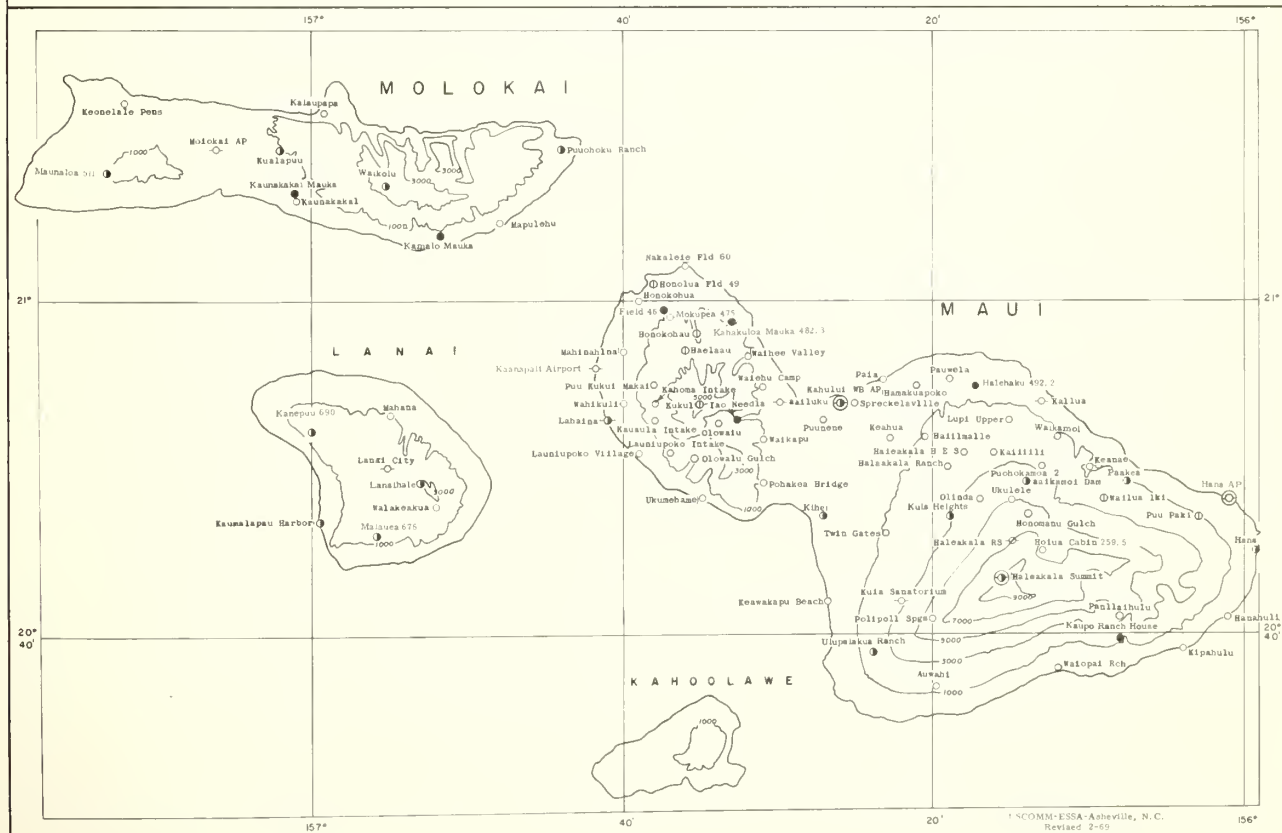
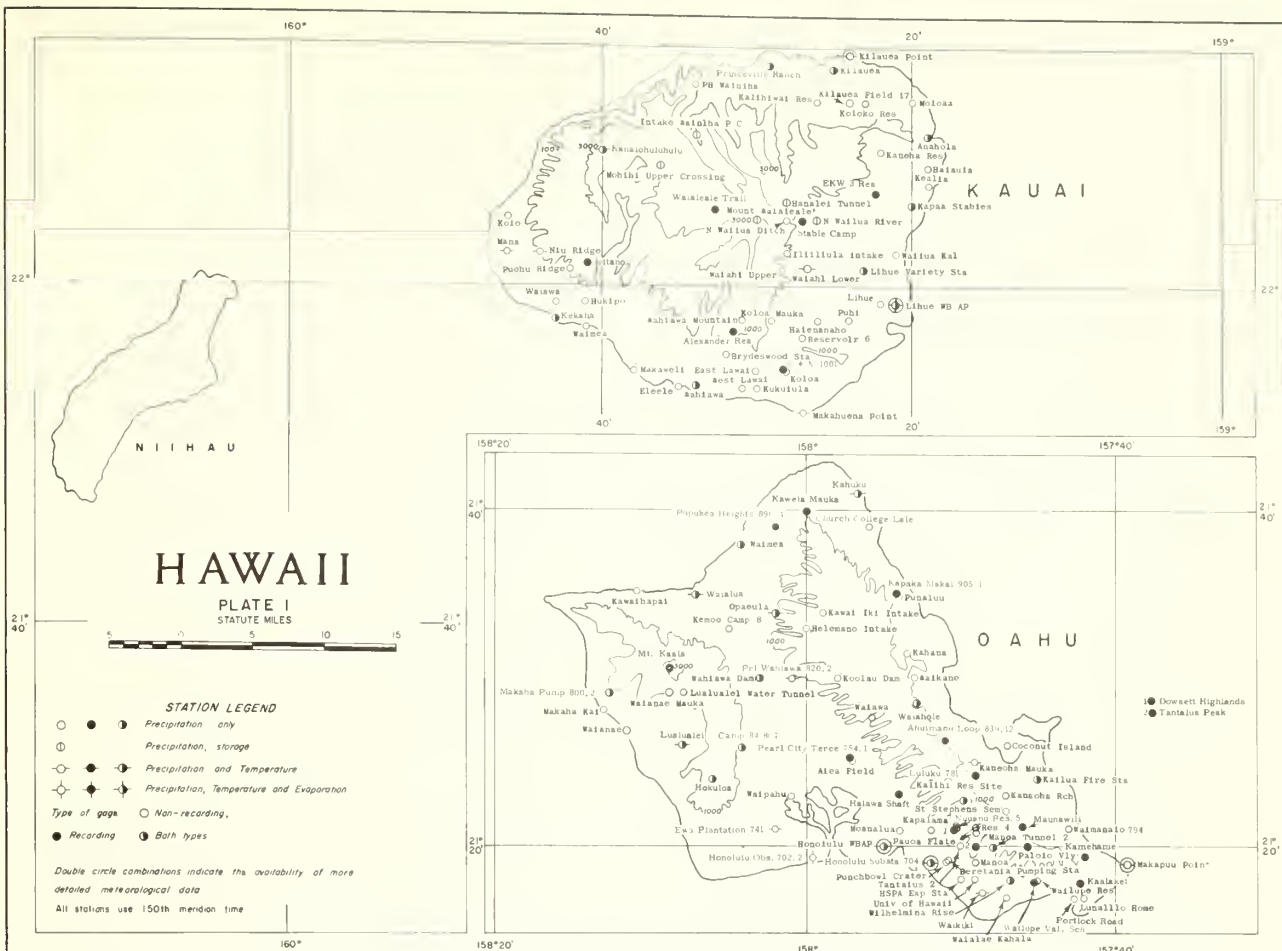
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

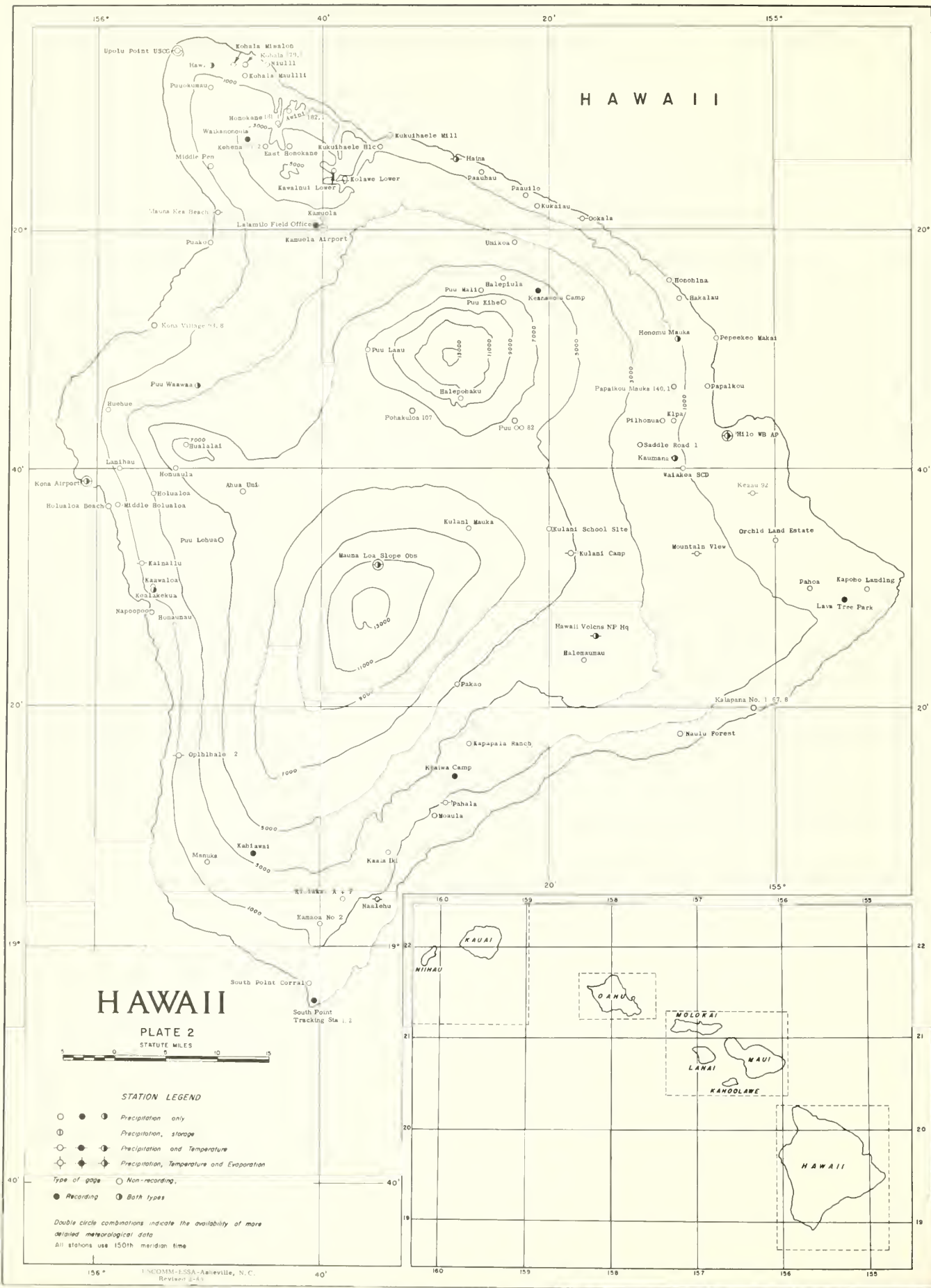
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Resittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center
USCOMM-NOAA-ASHEVILLE, N.C. 6/28/72-890





HAWAII

PLATE 2

STATUTE MILES



STATION LEGEND

- ● ① Precipitation only
- ① Precipitation, storage
- ● ① Precipitation and Temperature
- ● ① Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording, ● Recording ① Both types

Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time

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CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

APRIL 1972

Volume 68 No. 4

AUG 21 1972

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature										Precipitation																
	Average Maximum	Average Minimum	Average	Departure from Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure from Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max. Min.								Total	Max. Depth on Ground	Date	10 or More	50 or More	100 or More				
										80° or Above	65° or 80°	50° or 65°	32° or 50°														
* * * ISLAND OF KAUAI																											
ANAHOLA 1114	A	66.8	51.6	59.2		72 19	39 1			0	0	0	0	15.01	10.90	3.50	14	.0	0		8	3	3				
KANALOHULU 1075	A													8.59				.0	0								
KAPAA STABLES 1104	A													16.67				.0	0								
KILAUEA FIELD 17 1135	A													14.00	6.19	2.30	14	.0	0		9	4	3				
KILAUEA POINT 1133	A	76.3	68.5	72.4		84 16	62 26			0	0	0	0	7.77				.0	0								
KOLOA 936	A													10.47	5.74			.0	0		7	4	3				
LIHUE WSO 1020.1 AP	//R	78.1	69.9	74.0	1.5	81 30+	60 1			0	0	0	0	10.65	7.31	5.33	15	.0	0		5	2	2				
MANA 1026	A	83.5	62.6	73.1	.4	87 29+	59 27+			0	0	0	0	3.80	2.55	1.91	16	.0	0								
N WAILUA OITCH 1051	A													28.89				.0	0		14	6	2				
PH WAINIHA 1115	A													8.33	- 3.94	1.67	9	.0	0								
PUEHU RIOGE 1040	A													6.38		2.58	16	.0	0		7	3	2				
WAIHANA 930	A													6.71	4.79			.0	0								
WAIHAI LOWER 1054	A	75.5	62.7	69.1		79 29+	57 1			0	0	0	0	18.96		7.46	16	.0	0		20	9	3				
WAIHANA 947	A													7.26	6.13	3.39	16	.0	0		4	3	3				
* * * ISLAND OF OAHU																											
HONOLULU OBSERV 702.2	R	81.1	68.8	75.0	.8	84 30+	62 1			0	0	0	0	3.71	3.84	3.12	15	.0	0		3	1	1				
HONOLULU WSO 703 AP	A													5.15		3.90	14	.0	0		5	2	1				
KAHUKU 912	A	78.1	67.5	72.8	.3	83 27	65 7+			0	0	0	0	9.96	7.11			.0	0								
KANEHE MAUKA 781	A													13.77	8.24	5.30	25	.0	0		15	7	2				
KODIAU DAM 833	A													13.76	6.81	3.75	15	.0	0		18	7	4				
LUALUALEI 804	A	80.6	67.8	74.2		84 18	59 3			0	0	0	0	3.69				.0	0		5	1	0				
MAKAPUU POINT 724	A	74.9	66.5	70.7		79 15	58 6			0	0	0	0	2.11	.33	.90	15	.0	0		17	11	3				
NUUANU RES 4 783	A													15.24	5.23	3.34	14	.0	0								
OPAEULA 870	A	72.7	60.1	66.4	- 1.6	82 3	56 1			0	0	0	0	7.51	3.35	3.40	15	.0	0		17	11	6				
PAOLO VALLEY 718	R													15.64	3.13	2.66	14	.0	0								
PRI WAIHANA 820.2	A	78.4	62.1	70.3		84 18	53 3			0	0	0	0	7.19				.0	0								
WAIHANA OAM 863	A													5.07				.0	0								
WAIHOLE 837	A													20.55	7.25			.0	0								
WAIHOLE 896.3	A	77.7	66.8	72.3		82 14	62 1			0	0	0	0	6.76		2.03	17	.0	0		8	3	3				
WAIHOLE 847	A	78.4	62.0	70.2	- 1.3	84 14	54 2			0	0	0	0	4.75	3.03	2.10	15	.0	0		6	3	2				
WAIKIKI 717.2	A	80.6	67.8	74.2		84 19	61 1			0	0	0	0	4.07		2.00	15	.0	0		6	3	1				
WAIMANALO EXP FARM	A	78.1	67.8	73.0		82 14	59 1			0	0	0	0	5.28		2.21	15	.0	0		6	3	2				
WAIHANA 750	A													7.43	5.55			.0	0								
* * * ISLAND OF MOLOKAI																											
KUALAPUU 534	A													.89	- 2.17			.0	0		0	0	0				
MAPULEHU 542	A													2.80	- .25	.34	2	.0	0		13	0	0				
MAUNALO 511	A													1.38	- .93			.0	0		2	0	0				
MOLOKAI AP 524	A	77.0	67.0	72.0		80 20+	61 13			0	0	0	0	.87		.40	15	.0	0								
* * * ISLAND OF LANAI																											
LANAI CITY 672	A	73.5M	58.8M	66.2M	- .8					0	0	0	0	1.84	- 1.08			.0	0								
* * * ISLAND OF MAUI																											
HALEAKALA 8 E S 434	A	59.1	41.1	50.1		64 24+	36 26+			0	0	0	0	9.07	1.11	2.80	10	.0	0		11	5	3				
HALEAKALA RS 338	A	78.8M	65.7M	72.3M		81 27+				0	0	0	0	5.23		3.05	10	.0	0		7	2	1				
HANA AIRPORT 355	A													6.45		1.52	7	.0	0		14	4	1				
HONOKOHU 493	A	79.7M	66.1M	72.9M		84 18	61 1			0	0	0	0	2.42	- .76	.46	16	.0	0		2	0	0				
KAHULUI WSO 398 AP	R	82.6	64.5	73.6	.2	85 18+	57 1			0	0	0	0	.30	- 1.14	.06	15	.0	0		0	0	0				
KAILUA 446	A	73.9	63.1	68.5	- .6	78 26+	58 1			0	0	0	0	11.48	- .05	1.52	29	.0	0		21	11	3				
KEANAE 346	A													21.90	- 3.20			.0	0		16	4	2				
KIPAHULU 258	A													8.36	1.32	2.14	13	.0	0		4	1	1				
KULA SANATORIUM 267	A	69.9	55.5	62.7	.7	74 16+	50 12			0	0	0	0	2.88	.19	1.90	17	.0	0								
LAHAINA 361	A	82.9	64.5	73.7		86 17	60 1			0	0	0	0	.46	- .59	.45	15	.0	0		1	0	0				
PAIA 406	A													1.24	- 1.89	.19	23	.0	0		6	0	0				
WAILUKU 386	A									0	0	0	0	.70	- 2.00			.0	0								
* * * ISLAND OF HAWAII																											
HAINA 214	R	76.3	64.2	70.3	.3	80 15	60 12			0	0	0	0	4.66	- 3.01	.97	2	.0	0		13	2	0				
HAWAII VOLCNS NP HO 54	R	63.7M	52.3M	58.0M	- 1.1	69 15	48 25			0	0	0	0	16.10	7.70	2.24	9	.0	0		23	12	4				
HILD WSO 87 AP	A	79.3	66.0	72.7	1.1	85 14	60 28			0	0	0	0	17.79	5.87	3.57	1	.0	0		25	8	4				
HUEHUE 92.1	A													1.09	- 1.92			.0	0		9	0	0				
KAINALIU 73.2	A	75.5	60.7	68.1		79 17+	58 28+			0	0	0	0	3.07	- 2.59	.43	25	.0	0								

Continued

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
APRIL 1972

Station		Temperature										Precipitation												
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
											Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											90° or Above	32° or Higher	32° or Higher	0° or Below										
KEAAU 92		76.3	63.6	70.0	- 1.1	81	28+	59	30		0	0	0	0	21.20	8.78	4.50	2	.0	0		29	11	5
KEALAKEKUA 26.2		75.7	61.8	68.8		80	19+	59	13+		0	0	0	0	3.97		1.61	20	.0	0		11	2	1
KONA (KAILUA) 68.3	A										0	0	0	0	1.43				.0	0				0
KUKUIHAELE HIC 199											0	0	0	0	6.21	- 3.02	1.11	8	.0	0		15	6	1
KULANI CAMP 79		60.1	46.8	53.5				38	1		0	0	0	0	20.39		3.50	10	.0	0		27	11	7
PAHALA 21	A					79	17				0	0	0	0	6.59	3.43			.0	0				
POHAKULOA 107	A														2.37				.0	0				
PUAKO 95.1	A	83.2	68.0	75.6		87	9	62	1		0	0	0	0	.11		.06	17	.0	0		0	0	0
PUU WAAWAA 94.1	A														.14	- 2.16			.0	0		0	0	0
UMIKOA 118															12.28	2.95	5.67	10	.0	0			4	3
WAIKOA SCD 88.2															31.94		6.46	17	.0	0		26	15	9
ISLAND				67.1											9.33				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 88° ON THE 9TH AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 21° ON THE 27TH AT HALEAKALA SUMMIT 338.4, MAUI

GREATEST TOTAL PRECIPITATION: 43.08 AT KIPA 89.2, HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 2 STATIONS

GREATEST ONE-DAY PRECIPITATION: 9.50 ON THE 20 AT KIPA 89.2, HAWAII

See Reference Notes Following Station Index

HAWAII - APRIL 1972

SPECIAL WEATHER SUMMARY

April in Hawaii frequently straddles the seasons, uncertain whether to become part of winter or summer. This year it chose to be both. Although never very severe, the weather was highly varied, running the gamut from gusty trade winds to thunderstorms, waterspouts and funnel clouds, hail, flooding and drought-relieving rains, and high waves that caused several boating accidents and deaths.

April's proverbial showers began on the very first day of the month, when welcomed downpours brought 24-hour rainfall totals ranging from 1.74 inches at Pahoa to 7.86 inches at Honomu Mauka and ended a dry spell that had led to designating portions of eastern Hawaii Island a drought disaster area the previous month.

A brief chronology of the month's more significant weather-related events follows.

APRIL 5. A Catholic nun, twice swept into the ocean from rocks near Fleming's Beach, Lahaina, Maui, was rescued twice but succumbed to her injuries 10 days later.

APRIL 10 and 11. Gusty northeasterly trade winds from a strong high pressure area 1,000 miles to the north, buffeted the islands. Damage was minimal: some vegetable crops bruised; and roof damage to an apartment house in Honolulu's Kapiolani district (\$8,000), leaving five families temporarily homeless, and to an industrial building in Kakaako, Oahu. At Waimea-Kohala Airport shortly after noon on the 11th, 35 to 45 m.p.h. trade wind gusts flipped over a light aircraft turning to taxi for takeoff. The pilot, the only one aboard, was uninjured, but the aircraft's tail section was damaged and later its wing while being righted.

APRIL 12. During the evening two narrow funnel clouds (not reaching the sea surface) were sighted about 7 miles northeast of Lihue Airport, Kauai, while other less well-defined funnels appeared to form and dissipate along the cloud base.

APRIL 14-17. Oahu and Kauai experienced minor flooding and damage from thunderstorms and occasionally heavy rain associated with a surface band of low pressure (trough) that extended from a low pressure center 400 miles northwest of Honolulu. During that period, peak 1-hour rainfall intensities exceeded 1.5 inches at many gages, 2 inches at some, and reached 3.10 inches at a gage in Oahu's Pearl City Terrace area. Twenty-four-hour rainfall totals of 6.52 inches and 4.21 inches set new April records at Honolulu Airport and Lihue Airport, respectively.

APRIL 15, ON KAUAI:

1. Lightning struck Kauai Electric Company's Lihue substation during the morning, leaving almost the entire island without power for 2 hours. Lightning also shattered a TV antenna pole in Hanamaulu.

2. Flooding in low-lying areas made most of Wailua Golf Course a "water hazard."

3. Heavy rain and low clouds forced two commercial flights en route to Lihue to turn back to Honolulu.

4. Water up to about 4 feet deep in low-lying areas near Brennecke Beach in Poipu, flooded four homes and caused about \$2,500 in damage to household effects and three vehicles.

5. Runoff eroded shoulders and gutters and washed mud and debris onto highways between Waimea and Hanapepe, at Huleia, between Lihue and Anahola, at Wailua Homesteads, and between Kapaia and Wailua Falls.

APRIL 15, ON OAHU:

1. Mud slides occurred at the Moanalua Road-Halawa Road intersection from nearby construction projects and at Waimalu Stream in that area; as well as on Lilipuna Road and on Kaneohe Bay Drive at the Saddle Road cutoff.

2. Kauhale Stream in Aiea overflowed, flooding the basements of two buildings.

3. Pensacola Street was flooded between King and Beretania Streets.

On West Molokai, the Marines called off amphibious landing exercises because of heavy surf.

APRIL 16. At mid-morning three dark, rope-like waterspouts were sighted 8 miles south of Waimea, Kauai. An afternoon thunderstorm gave Kula Sanatorium, Maui, pea-sized hail and Haleakala Summit rain and small hail.

APRIL 17. Intense rains, caused apparently by the ascent of moist trade winds over the Koolau Range, fell on the mountain slopes behind Kahaluu, Oahu, (a favored location for such rains), flooding the grounds of Kahaluu School, washing 3 feet deep over Kamehameha Highway near Kahekili Highway, and undermining the footing of Ahaolelo Road Bridge No. 2, dropping the bridge into the stream. Waiahole, at an elevation of 745 feet a few miles north of Kahaluu, registered 3.65 inches between 2 p.m. and 7 p.m., with a peak 1-hour intensity of 1.90 inches between 3:30 p.m. and

HAWAII - APRIL 1972

SPECIAL WEATHER SUMMARY - Continued

4:30 p.m. Ahuimanu Loop, upslope of Kahaluu, recorded a 1-day total of 6.2 inches, beginning at 8 a.m. on the 17th.

APRIL 19. Two men were drowned after gusty trade winds or a large swell upset their sailboat 3 miles off Honolua Bay, West Maui. A third man, swimming with the current, reached Molokai after 16 hours in the water.

APRIL 29. Rain showers and low clouds reduced visibility at Hilo Airport to 2 miles or less continuously from 7:15 a.m. to nearly 5 p.m.

APRIL 30. A wave alleged to be twice as large as others at the time overturned an 18-foot boat in Kaiwi Channel. One man died while clinging to the partially submerged hull. Two others were rescued by Coast Guardsmen after nearly 24 hours in the water.

Small craft advisories were ineffect for Hawaiian waters on 15 days. Eleven of these had gusty northeasterly trades; four had southerly winds.

The month's rains gave most of Kauai and Oahu,

which had been quite dry in March, well above their April averages. Kauai's southwestern coast was particularly wet with five to eight times its average rainfall, while its eastern coast and western and southern Oahu had three to five times their April averages. Lihue Airport had 10.65 inches, its wettest April in 22 years of record and substantially over the 8.86 inches in April 1962.

All of Molokai and most of Lanai received well under their April average, while Maui's central valley had less than half and in places less than one-fourth of its average for April.

On Hawaii Island rainfall in the Kohala and Hamakua Coasts and the Kona district ran somewhat below normal, with some gages in North Kona and the Kawaihae area totalling less than one-fourth their April averages. In general, the island showed an interesting reversal in rainfall distribution from the previous month, with most of the eastern half of the island well above normal in contrast to its very low rainfall in March.

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DAILY PRECIPITATION

HAWAII
APRIL 1972

Station		Total	Day of Month																															APRIL	1972
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF KAUAI																																			
ANAHOLA 1114	A	15.01	*		1.50	.04	.03	.09							.04	.02		2.70	*		10.12						.45								
BYRDESWOOD STA 985	A	9.78	*		.09	.01	.01	.13	.52	*					.62	.02	.04	1.80	*		5.42	.05	.30	.01	.12	*		.47	.02	.02	.03	.02	*	*	
EAST LAWA 934	A	10.27	*		.33	.04	.02	.14	.03						.86	.05	.02	.91	*		6.18	.12	.46	.10	.70			.12	.07	.02	.04	.06	*	*	
ELEELE 927	A	6.02	*		.04	T		.07	.01						.37	T		1.09	*		4.26	.03	.11	T	.03			.01	T						
LAUOLA 1110	A	15.80	*		1.60	.05	.06	.10							.03	.02		3.00	*		10.57	.04					.30								
MALENANAO 1006	A	12.70	*		.37	.24	.03	.13	.12	*					.75	.02	.03	1.34	*		8.60	.46	.03	.05	.04			.28	.02	.04	.06	.09	*	*	
UKIPO 945	A	6.59	*		.07	.11												2.60	.56	3.25															
ILILIULA INTAKE 1050	A	25.29	*		.78	.54	.02	.42	.38	*					2.44	.09	.11	.02	4.36	*	10.89	.55	1.70	.39	.35			1.59	.12	.06	.21	.27	*	*	
INTAKE WAINIMA PC 1086	A	9.40	1.48	*		.23				1.60	*				2.23	*			3.34	*								*					.52	*	
ANALOHULULU 1075	A	8.59	*	.08	.06			.18	.16		.03				.25	.02		3.50	1.33	2.52		.08	.13	.03					.07			.10			
KANEHA RESERVOIR 1092	A	16.89	*		2.50	.35	.15	.14	.08	*					.40	.07	.10	3.10	*		8.90	.46	.03	*	*			.45			.10	.06	*	*	
KAPPA STABLES 1104	A	16.07	*		2.36	.21	.10	.10	.04	*					.13	.10		2.68	*		10.73	.06	.04	*	*			.09		.02	.01	*	*		
KEALTA 1112	A	14.23	*		1.40	.03	.07								.02	.01		2.00	*		10.40	.03						.27					*		
KEKAMA 944	A	6.02	*		.06	.11												1.55	.40	3.86				.04									*		
KILAUHA 1134	A	10.16	*		1.66	.35	.02	.27	.15	*					.07		.05	.03	1.30	*	5.30	.33	.11	.03			.25			.16	.08	*	*		
KILAUHA FIELD 17 1135	A	14.00	*		3.60	.38	.05	.58	.10	*					.35		.04	.16	1.50	*	6.12	.37	.02	.08	.02	*	*	.42			.11	.10	*	*	
KILAUHA POINT 1133	A	7.77	.40	1.07	.04	.17	.04	.05						.09	.09			.81	2.30	2.00	.10	.12	.02	.22					.04	.07	.06	.06	*		
KOLO 1033	A	3.51	.06					.14										1.31	.52	1.32					.16										
KOLOA 936	A	10.47	*		.46	.15	.13	.09	*						.55	.03	.04	.61	*		7.27	.05	.61	.06	.02	*	*	.17	.03	.03	.15	.02	*	*	
KOLOA MAUKA 994	A	13.13	*		.32	.24	.05	.24	.09	*					.68	.03	.08	1.53	*		7.34	.81	.44	.16	.14			.51	.03	.02	.07	.15	*	*	
KOLOKO RES 1137	A	14.55	*		3.40	.51	.05	.55	.07	*					.22	.02	.01	.22	1.75	*	6.40	.55	.05	.03	*			.40		.14	.18	*	*		
KUKUIULA 935	A	7.61	*		.32	.05	.02	.10	.02	*					.41	.02	.01	.56	*		5.81	.05	.19	.02				.05	.01	.05	.02	*	*		
LIHUE VARIETY STA	A	14.07	*		1.54	.30	.02	.23	.02	*					.37	1.26	1.97	1.27	1.97	6.95	.29	.07				.24	.01		.16	.14	.21	*	*		
LIHUE 1020	A	12.34	*		1.79	.35	.01	.09	.02	*					.07	.01		1.03	*		8.76	.03								.04	*	*	*		
LIHUE WSD 1020.1 AP	/R	10.65	T	.95	.12	.21	.05	T	T	.01				T	1.87	5.33	1.81	T	.11				.01	.03	.05		T	.03	T		.02	.05	*		
MAKAHUNA POINT 940.1	A	8.23	*	.10	.10	.19		.14							.33	.82	.12	.18																	
MAKAWALI 965	A	8.47	.01	.01	.10	.01	.08	.34		.02	.06				1.20	2.00	4.50	.04	.13											.08		.01			
MANA 1026	A	3.80	*					.13							.07	.10	.32	1.91	.01																
MOHEHI UPR CROSS 1083	A	7.94	*	.25	.08	.17	.25								.17			.25	4.16	1.36	.25								.08		.08				
MOLOAA 1145	A	12.03	*		1.68	.06		.18	.07	*					.03			.14	1.70	*	7.95	.59					.08			.08		.05	*	*	
MOUNT MAIALEALE 1047	R		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NIU RIDGE 1035	A	6.07	*			.03		.14										1.50	*	3.90															
N WAILUA DITCH 1051	A	28.89	*		1.36	.21	.26	.70	.66	*					2.10	.28	.16	1.20	1.50	*	10.76	.75	1.66	.56	1.16	*		.60		.16	.20	.26	.46	*	*
PH WAINIMA 1115	A	8.33	*	.01	.43	.85	.02	.18	.05	.06	1.67				.79	.20	.02	.38	1.00	*	.72	.02	.78	.13	.03	.26	.08	.05	.01	.24	.05	.06	.24	*	
PRINCEVILLE RANCH 1117	A		*		2.41	.32	.01	.26	.32	*					.33	.01	.01	.62	*		7.01	.17	.28	.03	.04			.27		.02	.22	.08	*	*	
PUEHU RIDGE 1040	A	6.38	*		.19	.32	.03	.12	.09	*					.26	.03		.07	.99	*	11.97	.07	.06	.03	*			.17	.02	.02	.09	.04	*	*	
PUMI 1013	A	15.12	*		.74	.32	.03	.12	.09	*					.26	.03	.11	1.43	*		8.49	.44	.14	.02	.02	*		.30	.03	.04	.09	.18	*	*	
RESERVOIR 6 1004	A	13.42	*		.50	.14	.04	.73	.05	*					.64	.03																			
WAIHANA 930	A	6.71	*		.71	.07		.07	.07	*					.36	.01		1.31	*		4.57	.03	.07	.01	.02	*		.02	T	T	.06	T	*	*	
WAIHANA MOUNTAIN 990	A	21.50	*																														21.50	*	
WAIAMI LOWER 1054	A	18.96	*	.46	.20	.40	.23	.24	.13	.53	.54	.02	.07		2.05	2.49	7.46	.78	.50	.98	.23	.17	.60	.05	.04	.03	.13	.09	.25	.34	*	*			
WAIAMI UPPER 1052	A	21.71	*	.45	.20	.49	.30	.38	.35	.99	.39	.05	.08		2.30	4.85	5.09	.80	.33	1.63	.19	.40	.35	.45	.20	.02	.03	.15	.05	.62	.28	*	*		
WAIANA 943	A	5.64	*		.02		.11	.06										1.27	.61	3.51															
WAILUA KAI 1065	A	13.62	*		2.99	.33	.10	.09							.03			1.90	1.68	3.39															
WAIKAE 947	A	7.26	*				.29																												
WEST LAWA 931	A	7.12	*		.42	.02	.01	.08	T						.41	.02		.90	*		4.86	.04	.15	.02	.03	*		.04	.02	.01	.09	*	*		
ISLAND OF OAHU																																			
BERETANIA PUMPING STA	A	6.35	*		.23	.03	T	.02	.06	.02	.04	.77	.02		.05	.43	3.40	.90	.23	T						.03				.06	.01	.10			
CAMPBELL END PK 702.5	A	3.59	T	*	1.08	.06	T		.03	.12	*				.02	.17	2.73	.25		.01															
CAMP 84 807	A	4.39	*		.42	.01	T	.03	.12	*					.08			.02	.17	2.73	.25		.01												
CHURCH COLLEGE LAIE	A	8.93	.38	1.01	.66	.21		.01	.56	.05	.32	.31			.02	.17	2.73	.25		.01															
COCONUT ISLAND 840.1	A	9.99	*	.09	1.17	.24		.01	.56	.02	.02	.04			.03	.01	6.35	.06	.18	.96															
EWA PLANTATION 741	A	5.59	*		.38	.01	.01																												

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Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KEONELELE PENS 551	A	.75																.65																
KUALAPU 534	A	.89	*		.07	.04	.03	.01				.17	.10	T				.42	.10															
WAPULEHU 542	A	2.80		.34	.04	.02	.13	.28	.16	.05	.03	.10	.03		.11	.30		.22	.14	.01	.03	.01	.13		.02		.18	.08		.19	.20			
MAUNALO 511	A	1.38	*		.04				.16									.86	.03	.23										.02	.01			
MOLOKAI AP 524	A	.87			.02	.02		T	T	T							.40	.28	.06	.01	.05		T	T										
PUOHOKA RANCH 542.1	A	1.31					.06		.74							.20													.03	.10	.13			
WAIKOLU 540	A	5.97	*	*	*		2.15	*		*	*	*				2.42	*	*	*	.05	*	*	*	*	*	1.40	*	*	*					
ISLAND OF LANAI																																		
KANERU 690	A	2.20	*	*	*	*		.35	*	*	*	*	*	*		.67	*	*	*	*		1.18												
MAHAKAPAU HARBOR 658	A	1.32	*	*	.38													.84		.10														
LANAI CITY 572	A	1.84	*	*	.13	T	.01	.01	.10									1.01	.18	.40												T		
LANAI MALE 684	A	3.77	*	*	*	*		1.95	*	*	*	*	*	*		.50	*	*		1.25	*	*	*	*	*	*	*	*	.07	*	*	*		
MAHANA 694	A	1.27	*	*			.10											.81	*		.18													
MALAEUA 676	A	1.31	*	*	*	*		.02	*	*	*	*	*	*		.05	*	*	*		1.24	*	*	*	*	*	*	*	*	*	*	*		
WAIHAKUA 685	A	1.52	*	*	*	*	*	*	*	*	*	*	*	*			1.38	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.14	
ISLAND OF MAUI																																		
KAHANA 252	A	1.58				.20						.35				.25				.78														
MALEKALA A E S 434	A	9.07			1.12	.06	.05	.01	.02	.14	2.35	2.80	.62	.04	.04		.02	.80	.34				.12	.15	.06		.06	.13		.12	.02			
MALEKALA RANCH 432	A	3.08			.89	*	*		.07	*	*	1.58	.25	*				.29	*															
MALEKALA RS 338	A	5.23			.82	T	.08	.25	.05	.14	3.05	.11	T	.08			.03	.38	.03	.11	T							.07	T			.03		
MALEKALA SUMMIT 338.4	A	4.09	*	*	.51	.01	.04	.12	.16	*	*	1.08	.01					1.80	.05	.29					.02									
MAHAMAILE 423	A	3.13	*	*	.51	.12	.04		.04	*	*	1.62	.41	.05				.12																
MAHAKAPUO 485	A	3.15			.08	.16	.08	.01	.35	.23	.29	.31	.08	.02			.03	.03	T	.05	.03	.03		.15	.28	.12	.01	.11	.07	.03	*	*		
MAHANA 354	A	4.29															.06	.08	.03	.65		.07												
MAHANA AIRPORT 355	A	6.45	T	.06	.42	.42	.12	1.52	.29	.09	.28	.04	.03	.23	T		.05	.15	.07	.13	.07	T	.62	T	.12	.04	.07	.05	.26	.60	.72			
MAHANAHI 281	A	4.81			.16	.09	.11	1.30	.24	.39	.27	.04	.03			.03	.05		.10	.07	.10	.22	.62	.12	.07	.04	.12	.15	.20	.38				
MAHOLA CABIN 259.5	A	6.10	*	*	*	*		.71	*	*	*	*	*	*	4.19	*	*	*	*		1.13	.02	*	*	*	*	*	.03	.02	*	*			
HONOKOHAU 480	A	7.35	*	*	*	*	*	*	*	*	*	*	*	*				.48	*		.07	.04			.23		.05	.05	.08	*		7.35		
HONOKOHAU 493	A	2.42	*	*	.06	.18	.16	.05	.06	*	*	.83	.06	.02																				
HONOHANU GULCH 341	A	12.80	*	*	*	*	*	*	*	*	*	*	*	*																			12.80	
KANAPALI AIRPORT	A			T	T	T	T	T	T	T		.19	T				.46	.01						.01								.01		
KAHONA INTAKE 374	A	4.60	*	*	*	*	*	*	*	*	*	*	*	*																			4.60	
KAHULUI WSO 398 AP	R	.30	*		T	.04	T		.34	T	.03	.02	.03	*		T	.06	.01	.01	*	*	*	.01	.05	T		*	*	T	T	*	*		
KAILIHI 436	A	20.41	*	*																													20.40	
KAILUA 446	A	11.48	*	.09	.54	.66	.37	.11	1.08	.68	.50	.39	.08	.00	.02	*	.01	1.48	.19	.06	.31	.13	.60	.18	.20	.15	.61	.53	.52	1.52	.43			
KAUAI INTAKE 375	A	2.49	*									.26						.72																
KEAHUA 410	A	.94	*		.54	.01	T	.01	.01	.01	.02	.10	.07	T			.05	.12	T															
KEANAE 346	A	21.90	*	*	*	*	*	*	*	*	*	*	*	*				.02	.05														21.90	
KEAWAKAPU BEACH 260.2	A	.09	*															.02	.05															
KIHEI 311	A	1.10	*		.02	.11	.07	.10	2.01	.52	.40	.13	.15	2.14			.04	.01	.12	.12	.16	.09	.05	.92		.32	.06	.17	.46	.26				
KIPAHULU 258	A	8.34	*	*																														
KULA HEIGHTS 323.2	A	2.66	*		1.12			.03	.06	.05	.16	.41					.01	.82																
KULA SANATORIUM 267	A	2.88	.01		.27	.02	T	.01	.13	.01	.45			.02			.04	1.90	.02	T														
LOAIA 301	A	.46	*																															
LAUNIUPOKO INTAKE 376	A	6.00	*	*	*	*	*	*	*	*	*	*	*	*				.45		.03	*	*	*	*	*	*	*	*	*	*	*	*	6.00	
LAUNIUPOKO VILLAGE 372	A	.48	*	*	*	*	*	*	*	*	*	*	*	*																				
LUPU UPPER 442	A	15.80	*	*	*	*	*	*	*	*	*	*	*	*																			15.80	
MAHINAHINA 466	A	2.04	*	*		.04	*	*		.12	.28	.90	.15				.40						.10		.32			.05	*	*	*			
MAHAMAILE FLO 60-497	A	3.09	*	*	.14	*	*		.03	.16	.02	*	.52	T				1.31	*						.01		.03	.01	T	*	*		.80	
OLINDA 332	A	4.21	*	*	.84	.01	T	.03	.16	.02	*	2.38	T	.04	T			.31	.36	.01	T													
OLOWA 296	A	.00	*	*	*	*	*	*	*	*	*	*	*	*																				
PAAKEA 350	A	24.06	.05	.31	.61	1.84	.94	.39	1.78	.92	.67	2.11	.14	.38	.24			4.50	.25	.56	.85	.57	1.67	*	.72	.62	.43	.86	.69	1.00	.96			
PAIA 405	A	1.24	*		.02	.02	.03	.01	.12	.11	.11	.14	.11	.01				.04	.01				.01	.04	.19	.04			.07	.08	.03	.07		
PANALEI HULU 259.2	A	8.30	*	*																														
PONAHAE BRIDGE 307.2	A	.18	*	*		.02	.01	*				.08						.06	*	.01														
POLIPOLI SPRINGS 267.2	A	3.10	*	*																													3.10	
PUOHOKA 2 343	A	45.00	*	*	*	*	*	*	*	*	*	*	*	*																			45.00	
PUUNENE 396	A	.22	*	*				.01	.02	.01	.03	.05	.06	.06	.05	T	.13	.01	T															
SPRECKELSVILLE 400.2	A	.53	*	*	.01	.01	.02	.01	.04	.05	.06	.06	.05	T			.08	.05	T						.05	.01			.02	*	*		.01	
TWIN GATES 261.3	A	.06	*	*																														
UKULELE 333	A	8.81	*	*																														

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Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KIPA 89.2	A	43.08	.40	9.50	1.64	.19	.42	1.00	.95	.44	2.17	1.12	1.14	.26	.33	.26	.06	8.48	.76	3.38	.99	1.07	1.32	1.72	.42	.04	.58	.95	.09	.30	3.10	.	.	
KOMALA MAULILI 176	A	5.79	.01	.01		.17	.46	.02	.05	.31	.94	.16	.05	.07	.02		.07	.11	.07	.41	.10	.05	.82	.02	.31	.26	.04	.	.	.	.	.
KOIAWE LOWER 196	A	13.11	.	.	.	.	.	.	1.52	.	.	.	.	.	.	.	.	.04	.30	.11	.17	.17	.05	.58	.14	.56	.07	.06	.12	1.14	.	.
KONA (KAILUA) 68.3	A	1.43	.	.	.43	.11	.06403256	.07	.06	.12	1.14	.	.	
KONA VILLAGE 93.8	A	.10	.	.	.	.02	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KUKAIUA 222	A	6.84	.33	.08	.12	.94	.66	.05	.47	.66	.59	.37	.34	.01	.	.	.08	.08	T	.09	.06	.06	T	.48	.03	.14	.71	T	.	.57	.	.		
KUKUIHALE HIC 199	A	6.21	.21	.23	.12	.72	.28	.02	1.11	.76	.83	.10	.11	.	.	.	.08	.08			.06		.18	.01	.13	.14			.60	.52	.	.
KUKUIHALE MILL 206	A	4.82	.	1.20	.05	.48	.19	.01	.	.	.	.	.	.	.	.	.11	.11			.02		.	.	.26	.11	.06	.	.	.54	.	.
KULANI CAMP 79	A	20.39	.06	.77	.34	.30	.27	.26	.46	.20	3.25	3.50	1.30	1.00	.49	.31	.01	.10	1.60	1.40	1.10	.76	.47	.25	.26	.17	.56	.53	.40	.02	.13	.12	.	
KULANI MAUKA 76	A	4.70	.	.1341	.03	.57	.82	.9818	.18	.37	.03	.05	T03	.06	.01	.	.60	.15	.	.	
KULANI SCHOOL SITE 78	A	18.91	1.30	.	.	.	.	1.60	.	.	.	.51	.20	.21	.	6.65	.10	.18	.37	.03	.05	T	.	.	.	.38	.05	.	.18	3.94	.	.
LANIHAE 68.2	A	5.05	.	.	.36	.45	.23	.17	.	.	.	.	.	.21	.	.	.	.	.	.	.33	1.90	.08	.	.	.	.	.	.	.	.	.
MAKAHALAU 103	A	2.43	.53	.	.	.	.	.04	.	.24	.	1.18	.	.28	.	.	.	.	.16	.	.	.	.	.	.	.	.	.	.	.	.	.
MANUKA 2	A	4.00	.	.	.60	.05	.	.	.	.	.	2.30	.	.	.	.	.	.50	.	.	T	T	.	.	.30	.05	.	.20	T	.	.	.
MAUNA LOA SLOPE 085	A	1.41	.	.03	.02	.	.43	.	.05	.22	.0519	.1404	.02	.	
MIDDLE HOLUALOA 68.1	A	5.03	.	.	.40	.	.	.55	.	.	.	.48	.	.	.	.	.	.07	.	.94	.52	.	.	.	1.73	.	.	.34	.	.	.	.
MIDDLE PEN 147.1	A	.48	.	.	.	.	.	.	.	.	.	.48	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MOAULA 18	A	3.80	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MOUNTAIN VIEW 91	A	31.59	.17	3.82	.31	.28	.73	.70	.51	3.56	1.89	1.82	.71	.26	.76	.04	.20	.39	3.31	1.63	2.52	1.40	1.13	.77	.88	.15	.09	.81	.40	.05	.46	1.44	.	
NAALEHU 14	A	6.45	.	2.65	.29	.05	.08	.06	.	.	.	.15	.	.	.	.15	.	2.00	.53	.16	.20	T	.	.	.	.	.13	T	.	.	.	.
NAPPOPOO 28	A	2.94	.	1.59	.09	.87	.58	.02	.37	.57	.63	.34	.24	.	.	.	.14	.	.06	.20	.01	.20	.08	.	.	.86	.14	.30	.13	.05	.	.
NIULII 179	A	4.34	.	.01	.05	.47	.06	.03	.	1.56	.03	.08	.02	.	.	.	.06	.20	.01	.20	.08	.	.	.	.	.	.	.	.	.	.	.
ODKALA 223	A	10.18	.02	1.66	.08	.12	.67	.51	.14	.63	.94	1.56	.03	.08	.02	T	.01	.93	.28	.06	.19	.23	.19	.82	.12	.01	.46	.13	.22	.02	1.15	.		
OPHIHALE 2 24.1	A	2.14	.	.03	.12	.33	.20	.07	.01	.	.12	T	.	.	.	.	.25	.02	.04	.16	.01	.	.22	.02	.02	.05	.13	.10	.24	T	.	.
ORCHIO LAGO EST 91.5	A	13.64	.	.	.	.	.	2.00	.	.	.	.	.	.	3.29	.	.	.	.	.	.	.	6.40	.	.	.	.	.	.	1.95	.	.
PAAUHAU 217	A	4.37	.97	.02	.12	.36	.34	.01	.38	.52	.48	.11	.06	.	.	.	.08	.	.	.	.	.	.19	.01	.16	.17	.	.	.06	.33	.	.
PAUHALO 221	A	5.80	.32	.05	.09	.87	.58	.02	.37	.57	.63	.34	.24	.	.	.	.07	.	.	.01	.01	.01	.25	.01	.17	.80	T	.	.	.39	.	.
PAHALA 21	A	6.59	.	1.91	.14	.	.	.01	.	.	.67	.01	.	.	.17	.	.	.29	.52	.14	.05					.02	.	.	.	.	.
PANOA 65	A	16.22	.08	1.74	.14	.11	.59	.57	.22	1.07	.57	.55	.06	.17	.93	.42	.12	.24	2.02	.73	.35	.55	.19	.52	.60	.10	.30	.34	.25	.15	.51	1.83	.	
PAKAO 37	A	7.70	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PAPAIAU 144.1	A	24.71	.15	6.87	.61	.24	.45	.36	.13	.65	1.66	.17	.12	.18	.37	.13	.	.08	4.85	.51	.15	.61	.76	.68	.91	.16	.08	.70	.31	.15	.37	2.30	.	
PAPAIAU MAUKA 140.1	A	38.03	.29	6.93	1.34	.36	.97	1.34	.55	.92	1.42	.70	.54	.19	.44	.17	.	.65	8.90	.78	.69	.92	.62	.55	1.78	.29	.03	.58	1.53	.10	.75	3.50	.	
PIIHONUA 89	A	42.20	
PONAKULOA 107	A	2.37	1.95	.	.	.	.	.08	.	.	.	.	.	.	.	.	.	.	.21	.	.	.	.	.	.	.	.	.	.	.	.	.
PUAKO 95.1	A	.11	T	.03	T	T	.	.01	.	.	.	.	.	.	.	.	.01	.06	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUU KINE 120	A	5.75	5.75	.	
PUU LAU 102.1	A	.9292	.	
PUU LEHUA 73	A	.9797	.	
PUU MALI 113	A	2.17	2.17	.	
PUU OO 82	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PUU WAHAA 94.1	A	.14	T0707	
SAADLE ROAD 1 84	A	36.16	7.0116	.	.	.	14.00	10.00	5.15	
SOUTH POINT CORRAL 3	A	5.87	.	3.0916	1.73	.186029	.	
URIKA 118	A	.	.	.15	.14	.46	.	.24	.64	2.29	5.67	1.98	.02	.03	.02	.2302	.	.	.08	.13	
UPULU POINT USCG 159.2	A	1.20	.	.	.	T	.02	T	T	T	.20	T	.01	.02	.	.	.03	.06	.	.	.05	.06	.04	.11	.11	.	.12	.04	.12	.02	.19	.		
WAIKAE SC0 88.2	A	31.94	.26	5.30	1.70	.38	.35	.80	.79	.46	2.10	1.30	.38	.33	.64	.07	.	.03	6.46	.77	2.15	1.05	.63	.88	1.17	.14	.10	.38	.26	.01	.43	2.42	.	

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation								Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
							150TH MERIDIAN													
							02	08	14	20										
HILO WSD 87 AP	13	1.2	6.7	20	E	14+	91	88	73	86	0	5	17	4	1	3	30	22	9.0	
HONOLULU WSD 703 AP	6	12.3	14.9	33	NE	10	76	73	60	72	11	6	3	1	0	1	22	56	7.6	
KAHULUI WSD 398 AP	6	10.9	12.8	29	E	24+	85	78	58	76	11	10	0	0	0	0	21	62	7.7	
LIHUE WSD 1020.1 AP	6	10.5	12.5	27	S	14	81	77	72	78	9	8	3	1	2	1	24	43	8.6	

DAILY TEMPERATURES

HAWAII
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Station		Day of Month																																Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	63 39	65 56	68 55	60 58	60 52	67 51	70 45	68 53	66 56	69 53	67 51	66 52	65 50	60 55	66 53	67 51	69 49	69 53	72 51	70 53	69 49	66 54	66 53	68 49	69 49	66 50	68 53	69 53	68 51	68 52	66.8 51.6		
KI LAUEA POINT 1133	MAX MIN	72 66	72 70	73 67	71 66	73 69	78 66	76 71	76 72	75 71	76 66	76 71	78 65	79 69	74 67	76 63	84 66	75 73	78 69	76 72	78 66	77 70	75 72	76 72	77 69	78 72	78 62	78 73	78 66	78 66	78 67	76.3 68.5		
LIHUE WSO 1020.1 AP	MAX MIN	76 60	73 69	76 69	71 65	76 69	78 71	79 71	79 71	79 72	79 72	78 70	79 68	81 66	75 68	75 67	77 63	80 71	80 74	80 74	80 73	80 72	80 71	80 70	79 72	79 73	80 71	80 72	80 71	81 70	81 72	78.1 69.0		
MAKAHUEA POINT 940.1	MAX MIN	80 64	80 64	75 67	75 67	71 64	76 65	76 64	80 64	79 69	80 69	79 68	80 69	85 69	81 72	76 70	73 62	82 70	81 71	82 70	77 71	80 68	77 70	78 68	78 69	78 69	80 68	80 69	80 68	81 67	81 67	78.7 67.7		
MANA 1026	MAX MIN	82 60	78 61	80 66	81 66	80 63	80 63	83 59	84 63	86 64	86 64	87 59	84 64	86 68	86 68	77 64	83 62	83 62	83 69	86 64	82 64	84 62	85 63	86 60	83 60	85 60	86 60	86 59	85 62	87 64	83 60	83.5 62.6		
NIU RIDGE 1035	MAX MIN	75 53	76 59	74 60	75 63	73 59	75 59	78 58	77 58	79 60	80 59	81 58	80 59	82 58	82 58	81 59	80 57	80 58	80 60	81 62	80 60	81 60	82 59	80 58	81 59	79 58	79 56	80 56	80 58	82 59	80 57	79.1 58.6		
WAI'IAHI LOWER 1054	MAX MIN	79 57	74 64	71 65	70 62	69 62	75 61	77 59	77 63	76 66	76 65	75 62	77 64	78 60	76 66	74 63	73 60	73 61	76 66	76 65	76 64	77 65	75 64	77 60	77 60	76 61	76 62	76 63	78 64	79 61	78 60	75.5 62.7		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN			81 57	79 57	77 63	79 66	77 62			82 65	80 67	79 63	80 67			81 64	80 67	84 65	81 65	82 65				82 63	81 63	81 64	80 62	82 65					
HONOLULU WSO 703 AP	MAX MIN	81 62	76 71	82 70	79 69	81 69	78 69	82 65	83 70	82 69	82 69	81 70	80 68	80 68	81 68	77 68	80 66	81 67	82 72	81 70	82 70	83 70	81 70	81 69	82 69	82 69	84 69	82 69	82 69	84 70	84 70	81.1 68.8		
HONOLULU SUBSTA 704	MAX MIN	77 66	75 71	78 69	72 68	76 68	76 68	77 68	77 70	78 69	76 67	76 69	77 68	77 66	78 65	76 69	79 68	81 69	79 72	78 71	77 70	78 70	77 70	77 69	78 69	79 69	78 68	77 69	77 69	77 70	77 70	77.2 68.8		
KAHUKU 912	MAX MIN																																	
KANEHE MAUKA 781	MAX MIN	78 65	78 67	76 69	79 70	78 65	78 65	76 65	80 71	77 67	79 67	80 68	79 69	79 68	78 68	79 68	79 68	76 68	80 67	80 67	77 66	76 66	78 66	76 67	74 67	76 68	79 68	83 68	80 70	78 69	79 69	78.1 67.5		
LUALUALA 804	MAX MIN	80 60	80 70	80 59	70 69	78 67	79 67	79 64	83 70	82 72	83 68	79 69	79 69	82 62	83 68	80 68	79 66	81 65	84 68	82 72	82 70	81 70	82 72	80 69	82 68	81 67	81 68	82 69	82 68	80 68	80 70	80.6 67.8		
MAKAPOU POINT 724	MAX MIN	78 60	75 66	77 67	75 66	70 63	73 58	74 68	75 66	73 66	74 66	75 67	73 64	77 66	78 66	79 66	74 66	75 67	78 69	75 70	74 69	76 67	75 68	73 65	75 65	73 65	74 69	75 68	74 70	74 66	74 67	74.9 66.5		
OPAEULA 870	MAX MIN	72 56	72 60	82 66	72 61	66 59	67 61	70 60	71 64	73 64	70 60	67 59	68 57	71 58	72 62	69 57	76 61	71 58	75 62	75 59	74 61	73 59	75 60	73 59	75 60	75 59	75 60	75 59	75 59	75 60	75 60	72.7 60.1		
PRI WAIHIAWA 820.2	MAX MIN	78 55	76 67	79 53	79 64	74 62	78 61	76 61	77 64	78 65	80 62	78 62	77 58	80 58	83 59	76 64	74 63	80 62	84 68	80 64	80 65	80 63	78 64	77 64	80 62	81 61	79 62	81 62	79 64	81 64	79 64	78.4 62.1		
WAI'ALEE 896.3	MAX MIN	78 62	79 63	74 68	77 66	72 64	76 67	76 67	77 66	77 67	77 65	77 65	77 65	72 66	82 67	81 66	78 66	78 66	77 66	79 70	79 69	79 66	79 66	78 69	78 69	73 69	79 68	79 69	79 69	79 68	79 67	77.7 66.8		
WAI'ALUA 847	MAX MIN	76 55	77 68	75 66	80 66	72 60	77 63	79 60	78 59	77 63	77 66	78 62	79 60	80 61	84 67	80 66	75 64	74 68	82 67	82 63	81 63	78 60	76 63	76 60	80 61	80 59	80 61	82 59	82 62	80 60	78.4 62.0			
WAIKIKI 717.2	MAX MIN	80 61	80 67	77 70	81 68	77 68	78 68	77 65	80 69	82 69	82 69	81 69	80 66	82 67	81 67	81 67	80 65	81 67	82 67	84 70	82 68	81 68	81 69	81 69	80 68	80 67	81 68	81 68	82 69	82 68	81 69	80.6 67.8		
WAIMANALO EXP FARM	MAX MIN	77 59	78 64	74 69	78 66	73 66	76 68	77 69	79 68	78 69	79 70	78 68	79 69	77 62	82 68	80 69	78 65	79 68	80 69	80 70	79 69	78 70	77 67	78 68	78 69	79 69	79 69	79 69	79 69	78 67	78 67	77.8 67.8		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	73 62	77 70	75 70	79 65	69 65	75 65	76 67	78 68	77 70	78 68	76 68	76 65	76 61	79 67	79 67	76 68	80 68	77 68	79 67	80 68	78 68	78 67	77 68	76 67	78 65	79 65	77 68	77 68	77 69	77 69	77.0 67.0		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN			73 55	74 62	71 60	71 60	75 69			70 60	69 57	71 57	80 56			74 58	76 61	77 62	75 59	73 59			74 55	74 58	75 57	72 56	74 57		73 60		73.5 58.8		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	54 43	58 46	59 44	62 48	62 46	63 43	57 40	59 39	61 45	56 43	55 41	64 39	56 38	54 39	57 42	61 43	60 44	59 43	59 40	59 37	58 37	63 37	64 37	64 38	58 36	55 36	58 37	61 45	59 42	59 42	59.1 41.1		
HALEAKALA SUMMIT 338.4	MAX MIN	50 36	48 42	50 36	50 44	54 45	59 40	45 38	52 38	50 39	50 36	55 39	55 44	58 40	52 40	56 38	50 37	54 39	43 38	44 38	46 22	48 38	56 38	54 41	49 45	51 40	42 37	43 21	44 33	48 34	52 38	50.2 37.7		
HANA AIRPORT 355	MAX MIN		78 68	79 69	81 64	75 63	77 66	75 66	77 63	77 65	77 65	79 66	78 68	81 63	81 64	79 68	80 69	80 66	79 66	80 66	79 66	79 66	80 66	79 66	79 66	81 66	80 66	81 66	80 66	79 66	79 66	78.8 65.7		
KAAHAPALI AIRPORT	MAX MIN	77 61	77 68	78 66	81 66	75 63	78 66	79 65	81 68	78 68	81 68	78 63	78 63	80 63	81 63	81 68	77 68	79 65	84 67	82 67	82 66	81 66	82 68	80 68	79 68	81 63	81 64	80 64	81 66	80 66	80 66	79.7 66.1		
KAHULUI WSO 398 AP	MAX MIN	82 57	82 66	83 65	74 66	81 67	83 65	82 66	81 69	83 69	85 68	83 68	81 68	84 67	85 66	81 67	85 66	85 66	84 66	84 66	84 66	84 66	82 68	81 67	84 67	84 67	84 67	83 67	83 67	84 65	84 65	82.6 64.5		
KAILUA 446	MAX MIN	78 58	74 63	74 64	75 63	65 61	68 63	73 64	74 64	74 64	75 64	73 63	73 63	74 63	77 62	76 61	77 61	77 66	73 63	73 63	72 64	74 62	74 62	75 63	74 63	78 63	74 63	72 63	73 63	73 63	73.9 63.1			
KEAWAKAPU BEACH 260.2	MAX MIN	80 59	81 65	83 66	83 67	77 62	84 65	82 61	84 63	88 63	84 63	87 58	85 58	87 62	87 61	83 65	84 64	83 64	85 63	85 63	85 58	87 61	87 59	85 58	84 57	86 60	86 59	86 59	86 59	87 62	86 65	84.4 61.8		

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Continued

DAILY TEMPERATURES

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Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX MIN	67 54	69 58	69 59	70 60	67 55	66 56	70 56	70 57	72 55	70 56	69 52	65 50	68 51	72 55	74 56	74 59	72 58	70 59	70 56	71 55	70 56	70 56	71 56	68 52	70 53	70 54	70 54	72 54	72 55	69 57	69.9 55.5	
LAHAINA 361	MAX MIN	80 60	81 68	83 68	83 68	81 65	82 65	83 64	84 64	85 65	84 65	83 62	82 62	82 63	78 64	82 66	84 66	85 67	83 66	84 65	84 63	84 63	84 63	84 64	83 63	83 64	84 64	83 65	83 63	84 64	82.9 64.5		
WAILUKU 386	MAX MIN			80 60	78 66	70 66	75 66	79 66			77 68	76 65	76 65	77 62	81 65		83 65	81 67	81 69	79 68	78 66			79 66	79 67	78 68	78 67	78 67					
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX MIN	78 62	79 66	76 68	78 65	70 62	69 64	78 63	75 65	74 65	77 65	73 60	75 60	74 62	79 63	80 63	78 65	77 65	79 65	78 67	77 63	78 64	78 66	77 64	74 63	77 63	77 63	78 64	76 64	78 64	72 67	76.3 64.2	
HAWAII VOLCNS NP HO 54	MAX MIN	68 55	68 57	64 56	63 55	63 51	61 53	59 50	67 54	68 55	65 54	58 49	62 49	65 53	67 52	69 54	67 54	66 54	62 54	62 53	60 52	60 52	61 52	60 49	61 52	60 49	62 51	62 50	62 51	66 49	63.7 52.3		
HILLO WSO 87 AP	MAX MIN	82 66	79 69	82 70	72 66	76 66	76 66	78 67	77 68	82 70	81 65	81 65	78 64	82 65	85 67	82 67	80 68	78 67	81 67	79 66	80 66	80 65	80 63	78 63	79 63	80 64	81 65	79 60	71 64	80 65	79.3 66.0		
KAINALIU 73.2	MAX MIN	77 61	78 63	78 64	70 64	73 63	72 62	76 60	75 59	78 63	75 62	79 61	74 58	72 58	75 59	79 60	74 59	79 59	78 62	77 62	74 60	74 60	75 60	74 61	74 62	76 59	74 59	73 61	74 58	75 60	77 61	75.5 60.7	
KAMUELA 192.2	MAX MIN	74 45	75 53	72 58	73 57	68 54	68 54	75 55	72 53	70 56	71 53	70 54	71 54	76 48	75 51	76 58	76 53	78 55	75 55	68 57	69 55	70 56	69 54	69 55	70 56	69 55	70 56	70 55	68 55	71.6 54.2			
KEAAU 92	MAX MIN	76 63	77 66	77 67	78 66	70 63	73 63	72 64	77 65	75 67	79 67	76 62	77 61	74 61	77 63	81 63	75 65	73 64	73 64	77 65	78 65	77 64	77 64	77 63	78 62	76 62	76 63	72 63	81 61	78 61	75 59	76.3 63.6	
KEALAKEKUA 26.2	MAX MIN	78 61	77 65	78 66	72 65	72 64	73 62	76 61	76 61	78 63	76 63	80 63	74 59	74 59	77 60	80 62	73 62	75 61	78 63	80 62	73 61	75 62	75 62	76 61	74 62	76 60	73 60	74 62	74 60	75 61	77 62	75.7 61.8	
KOHALA MISSION 175.1	MAX MIN	77 63	78 63	74 68	79 65	68 63	71 64	76 64	75 65	72 65	75 64	74 65	75 60	79 62	81 64	79 65	78 66	80 66	78 66	77 61	76 65	76 65	76 64	74 63	76 64	76 63	76 63	77 65	76 65	69 65	75.6 64.2		
KONA (KAILUA) 68.3	MAX MIN			85 65	81 70	79 70	80 70	83 68			83 68	81 71	80 69	80 66			84 68	84 68	83 68	83 67	83 65				83 68	82 67	82 66	82 66	82 66				
KULANI CAMP 79	MAX MIN	62 38	65 50	60 53	62 52	57 47	55 49	58 46	59 49	62 52	63 50	64 44	62 42	57 45	64 46	67 43	67 47		54 49	59 49	57 48	57 48	56 48	57 43	57 46	58 46	57 43	57 46	58 42	59 46	60 47	60.1 46.8	
MAUNA LOA SLOPE OBS	MAX MIN	44 34	44 34	48 36	47 38	51 38	42 33	46 33	48 32	45 33	48 33	52 32	51 32	48 33	48 32	44 31	41 32	44 33	47 32	48 35	52 33	50 31	50 29	54 32	52 35	51 36	50 35	51 35	49 31	50 30	45 33	48.1 33.2	
MOUNTAIN VIEW 91	MAX MIN	73 55	73 55	73 55	70 62	65 58	66 59	66 60	72 61	72 61	72 61	67 57	70 52	70 56	73 60	78 60	78 60	69 61	67 60	67 60	67 60	70 58	70 58	70 58	70 58	68 58	72 59	74 55	73 55	73 55	71.0 58.3		
NAALEHU 14	MAX MIN	75 60	77 61	77 61	69 66	72 65	74 64	75 65	81 65	83 65	78 65	76 63	76 63	76 64	76 64	78 64	78 64	78 65	77 65	75 64	75 66	75 66	75 65	75 65	75 63	72 63	75 64	77 64	77 64	77 62	76.0 64.0		
OOKALA 223	MAX MIN	76 61	77 61	75 68	73 65	68 63	68 63	75 64	77 64	74 63	78 63	74 63	75 63	74 63	76 60	78 60	77 64	75 65	78 65	77 64	76 65	75 65	77 64	74 63	76 64	76 63	77 63	77 63	77 64	75 65	75.3 63.8		
OPIHIHALE 2 24.1	MAX MIN	75 60	76 64	72 64	70 64	73 62	75 62	77 63	77 61	77 62	73 64	73 57	74 57	78 57	80 60	74 59	74 60	79 61	78 61	73 61	73 61	80 61	77 63	78 63	72 63	74 58	74 58	73 56	73 56	74 58	74.9 60.3		
PAHALA 21	MAX MIN			77 62	71 63	74 61	75 63	74 60			78 60	78 58	77 61	75 64	77 63		79 62	76 65	76 63	77 62	76 63												
PUAKO 95.1	MAX MIN	83 62	79 65	80 69	84 70	84 69	79 69	81 65	85 70	87 74	86 72	82 68	80 66	83 63	85 66	84 66	79 65	80 66	84 66	84 69	84 69	85 69	85 71	86 71	82 71	85 67	83 70	85 70	84 65	84 67	84 73	83.2 68.0	
UPOLU POINT USCG 159.2	MAX MIN	80 67	78 70	80 69	80 67	73 65	75 66	80 69	80 69	78 68	71 68	79 70	79 68	78 68	83 70	81 70	81 69	78 70	82 71	79 68	79 68	79 70	79 68	77 67	75 68	81 67	79 67	80 68	81 70	80 69	73 70	78.6 68.6	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP WIND MAX MIN	.29 81 76 46	.15 133 69 52	- 102 66 50	.16 161 72 56	.11 173 67 56	.05 189 67 56	.32 162 78 58	.16 183 80 58	.32 194 79 59	.33 - 75 58	.30 - 75 57	.45 235 82 58	.22 164 79 57	.31 164 82 60	- 74 72 59	- 125 75 55	.05 115 76 56	.06 136 79 61	.21 193 82 61	.33 213 87 60	.26 233 87 59	.21 242 80 60	.29 244 77 58	.44 256 76 57	.39 211 76 58	.32 200 77 59	.37 256 79 58	.35 187 79 59	.30 191 76 58	7.918 53308 76.0 57.3		
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP WIND MAX MIN	.29 27 88 59	.15 15 78 59	.04 3 75 66	.15 19 86 64	.20 36 85 62	.18 31 83 62	.15 16 78 61	.32 41 89 63	.32 44 90 64	.30 62 89 63	.45 70 85 60	.38 47 83 60	.30 67 86 61	.30 67 86 64	- 75 84 65	.09 25 77 63	.23 20 82 63	.23 27 90 65	.15 29 81 63	.45 41 91 63	.09 89 89 63	.45 84 89 63	.30 86 87 62	.30 211 87 62	.17 32 84 61	.21 32 88 62	.35 41 88 63	.30 43 91 62	.30 35 83 63	7.718 1121 85.4 62.4		

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES	OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES	OBSERVER
ISLAND OF HAWAII																			
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1590	0A 0A	PUNA SUGAR CO	PUU MALI 113	A 851K	01	HAWAIIA	1	19 55	155 26	6960		KUKAIAU RANCH CO
MALEHU 14	6588	03	KAU	3	19 04	155 35	673	8A 8A	MUTCHINSON SUGAR CO	PUU DO 82	A 8550	02	S HILO	2	19 44	155 23	6340	0A	MISS JACKIE BENLEHR
NAPOOPOO 28	6697	04	S KONA	4	19 28	155 55	395	7A	KONA EXPERIMENT STA	PUU WAANAA 94.1	A 8558	05	N KONA	5	19 47	155 31	2320	7A	GILLINGHAM RANCH INC
NIULII 179	6806	01	N KONA	1	20 14	155 45	75	0A	KONALA CORPORATION	SADOLE PDAO 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		BOARD OF WTR SUPPLY
OKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A 7A	LAUPAHEHE SUGAR CO	SOUTH POINT CORRAL 3	A 8679	03	KAU	3	18 57	155 41	3400		HAWAIIAN RANCH COMPANY
OPINAHOLE 2 244.1	7186	04	S KONA	4	19 18	155 33	1270	7A 7A	MISS C LEONARD	UMIKOA 118	A 8700	01	HAWAIIA	1	19 59	155 23	3420	7A	KUKAIAU RANCH CO
UPCHIO LAND EST 91.5	7185	02	PUNA	2	19 34	155 00	445	VAR	BOARD OF WATER SUPPLY	UPOLU POINT USCG 159.2	A 8830	01	N KONA	1	20 15	155 53	61	8A	U S COAST GUARD
PAUHAU 217	7204	01	HAWAIIA	1	20 05	155 26	415	7A	PAUHAU SUGAR CO	WAIKAKA SCO 88+2	A 9028	02	S HILO	2	19 40	155 08	1050	7A	SHINICHI KANEHISHI
PAUHAU 221	7312	01	HAWAIIA	1	20 03	155 22	400	7A	HAWAIIA HILL CO	WAIKAKA 178.6	A 9350	01	N KONA	1	20 08	155 47	3830	7A	WAIKAKA RANCH
PANALA 21	7421	03	KAU	3	19 12	155 29	870	8A 0A	HAWAIIAN AGR CO										
PANDA 65	7457	02	PUNA	2	19 30	155 57	670	0A	PUNA SUGAR COMPANY										
PAKA 37	7643	03	KAU	3	19 22	155 28	5000		HAWAIIAN RANCH CO, INC.										
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 08	200	7A	MAUNA KEA SUGAR CO.										
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270	7A	MAUNA KEA SUGAR CO.										
PIIHONUA 89	8051	02	S HILO	2	19 44	155 10	1740		STATE DIV OF FORESTRY										
PONAKULA 107	8063	02	HAWAIIA	2	19 43	155 32	6511	VAR C	STATE DIVISION OF PAPRS										
PUAKO 95.1	8186	05	KONA	5	19 59	155 50	5	8A 8A	ERWIN M. RAPP										
PUU KIME 120	8399	01	HAWAIIA	1	19 54	155 24	7750		KUKAIAU RANCH CO										
PUU LAU 102.1	8452	05	HAWAIIA	5	19 50	155 36	7440		STATE DIV OF FISH-GAME										
PUU LEHIA 73	8460	04	N KONA	4	19 34	155 49	4880		W.M. GREENWELL RANCH										

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in "F.", precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index" indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

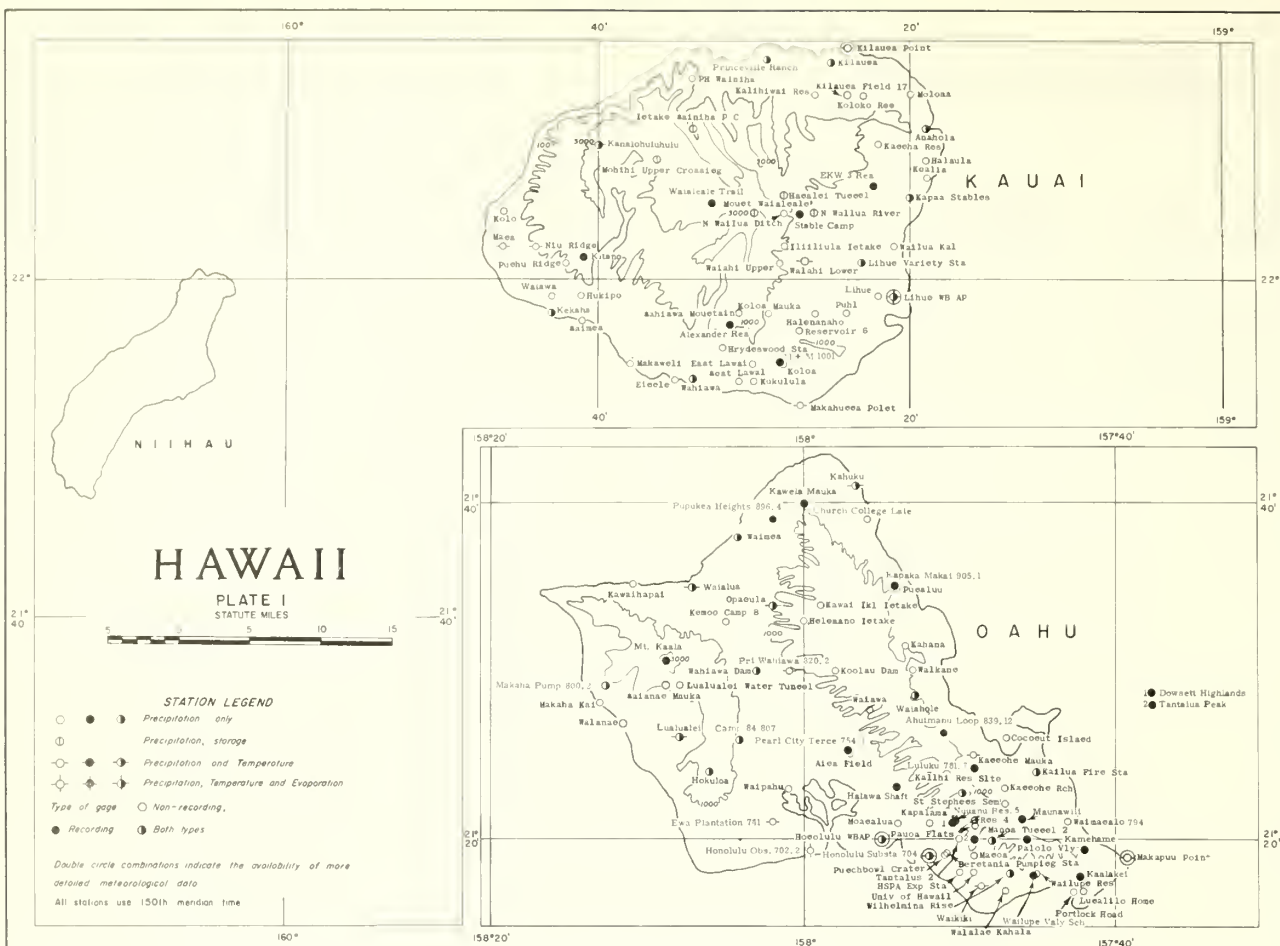
General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA; all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual: \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggan
Director, National Climatic Center
USCOMM-NOAA-ASHEVILLE, N.C. 7/31/72-890



156°

40'

20'

155°

HAWAII

HAWAII

 PLATE 2
 STATUTE MILES

STATION LEGEND

- ● ① Precipitation only
 ① Precipitation, storage
 ○ ● ① Precipitation and Temperature
 ○ ● ① Precipitation, Temperature and Evaporation
 Type of gage ○ Non-recording,
 ● Recording ① Both types

Double circle combinations indicate the availability of more
 detailed meteorological data
 All stations use 150th meridian time

20°

40°

20°

22°

21°

20°

19°

20°

40°

20°

19°

40°

156°

40°

160°

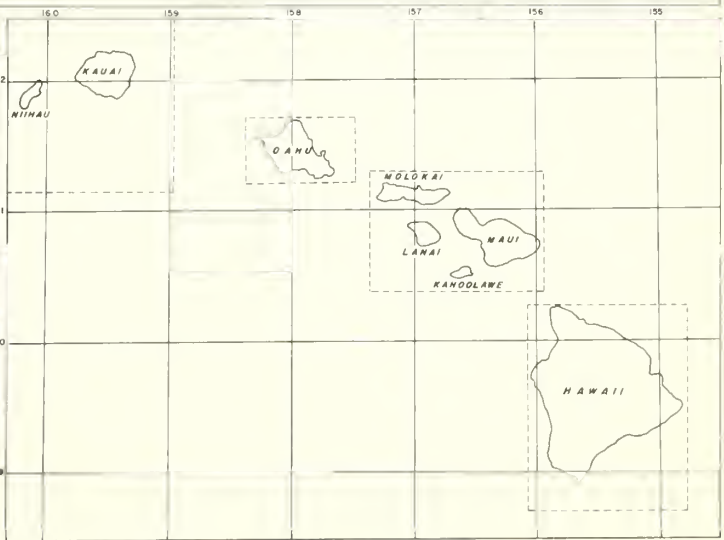
159°

158°

157°

156°

155°



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CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

MAY 1972

Volume 68 No. 5

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature										Precipitation																	
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max. Min.									Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More				
										30° or Above	32° or Above	34° or Above	36° or Above	38° or Above														
* * * ISLAND OF KAUAI																												
ANAHOLA 1114	A	70.3	51.6	61.0		73	27+	44	19+	0	0	0	0	0	1.84	- 1.11		.20	15	.0	0		2	0	0			
KANALOHULU 1075															.73					.0	0							
KAPAA STABLES 1104	A														2.06					.0	0							
KILAUEA FIELD 17 1135	A														3.14	- 4.45				.0	0							
KILAUEA POINT 1133		79.4M	73.4M	76.4M		84	14	70	13	0	0	0	0	0	1.57			.65	13	.0	0		4	1	0			
KOLUA 936	A														3.90	- .45				.0	0							
LIHUE WSO 1020.1 AP	//R	81.2	72.1	76.7	2.2	83	24+	66	26	0	0	0	0	0	.75	- 1.84		.33	29	.0	0		2	0	0			
MANA 1026		86.6	63.9	75.3	.6	89	21+	61	26+	0	0	0	0	0	.24	- .66		.15	8	.0	0		1	0	0			
N WAILUA OITCH 1051	A														12.26					.0	0							
PH WAINIHA 1115															2.39	- 6.77		.45	29	.0	0		10	0	0			
PUEHU RIDGE 1040															.94			.56	8	.0	0		3	1	0			
WAHIKAWA 930	A														1.69	- .19				.0	0							
WAIHI LOWER 1054		79.8	62.8	71.3		82	27+	57	27	0	0	0	0	0	6.52			2.07	15	.0	0		14	3	1			
WAIKAWA 947															.07	- .78		.07	15	.0	0		0	0	0			
ISLAND																												
* * * ISLAND OF OAHU																												
HONOLULU OBSERV 702.2	R	84.4	70.1	77.3	1.4	87	14	65	26	0	0	0	0	0	.09			.07	13	.0	0		0	0	0			
HONOLULU WSO 703 AP	A														.12	- .87		.04	17	.0	0		0	0	0			
KAHUKU 912	M														1.55	- .61				.0	0							
KANEHE MAUKA 781	A	80.1	68.9	74.5	.3	82	27	62	23	0	0	0	0	0	1.97	- 2.58		.34	24	.0	0		10	0	0			
KOOLAU OAM 833															4.43	- 1.68		.83	23	.0	0		15	2	0			
LUALUALEI 804	A	84.0	68.9	76.5		87	14	65	4	0	0	0	0	0	.14					.0	0							
MAKAPUU POINT 724		76.0	64.9	70.5		78	30+	56	16	0	0	0	0	0	.14					.0	0							
NUUANU RES 4 783	A														5.34	- 4.49		1.46	9	.0	0		12	2	2			
OPAEULA 870	R	77.7	60.0	68.9	- .9	81	13	57	25+	0	0	0	0	0	.28	- 3.00		.12	9	.0	0		1	0	0			
PALOLO VALLEY 718															5.88	- 6.24		1.88	9	.0	0		13	3	1			
PRI WAIKAWA 820.2	A	81.9M	62.7M	72.3M		86	11	60	26+	0	0	0	0	0	.34					.0	0		0	0	0			
WAIKAWA OAM 863	A														.63					.0	0							
WAIKAWA 837	A														5.45	- 6.70				.0	0							
WAIKAWA 896.3	A	81.7	68.9	75.3		84	15+	65	29+	0	0	0	0	0	1.48			.93	24	.0	0		3	1	0			
WAIKAWA 847	A	82.2	61.2	71.7	- 1.7	85	23+	58	27+	0	0	0	0</															

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
MAY

1972

Station		Temperature										Precipitation												
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
											Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											90° or Above	32° or Below	32° or Below	0° or Below										
KEAAU 92	A	78.8	62.9	70.9	- 1.6	81	29+	59	10+		0	0	0	0	5.78	- 4.10	.76	5	.0	0	21	2	0	
KEALAKEUA 26.2		76.4	61.7	69.1		78	20+	59	27+		0	0	0	0	4.46		1.69	3	.0	0	9	2	1	
KONA (KAILUA) 68.3		83.1M	69.3M	76.2M		87	9	66	26		0	0	0	0	3.61				.0	0				
KUKUIHAELE HIC 199															1.67	- 5.04	.59	8	.0	0	3	1	0	
KULANI CAMP 79		61.8	45.9	53.9		70	5	42	30+		0	0	0	0	5.81		1.10	1	.0	0	13	2	1	
PAHALA 21	A	78.3M	61.6M	70.0M	- 1.0	81	29	58	29		0	0	0	0	1.69	- .63	1.37	5	.0	0		1	1	
POHAKULOA 107	A														.00		.00		.0	0	0	0	0	
PUAKO 95.1	A	84.3	69.0	76.7		88	28+	66	22+		0	0	0	0	.16		.08	21	.0	0	0	0	0	
PUU WAAWAA 94.1	A														3.27	.54			.0	0				
UMIKOA 118															.47	- 4.59	.22	2	.0	0	2	0	0	
WAIKEA SCD 88.2															10.00		1.78	5	.0	0	22	7	2	
ISLAND				69.0											3.51				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 89° ON THE 22D+ AT 4 STATIONS

LOWEST TEMPERATURE: 29° ON THE 8TH+ AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 11.18 AT KIPA 89.2, HAWAII

LEAST TOTAL PRECIPITATION: .00 AT 18 STATIONS

GREATEST ONE-DAY PRECIPITATION: 2.90 ON THE 9TH AT MANOA TUNNEL 2 716, OAHU

H A W A I I - M A Y 1 9 7 2

SPECIAL WEATHER SUMMARY

May's weather was mild, warm, sunny -- and very dry, threatening many areas with a resurgence of the prolonged dry spell, only intermittently interrupted by the rains of the past winter. Light to moderate trade winds persisted throughout, except on the 10th through the 12th, when replaced by light southerly winds, and between the 27th and 28th, when they became gusty enough to call for 12 hours of small craft advisories.

The State was exceptionally dry nearly everywhere. Most sections had well under half, and large areas less than one-fourth, their average rainfall for May. Of the several hundred gages reporting, only three exceeded their May normals, and then only slightly: Wahiawa, Kauai, and Puu Waawaa and Kailua-Kona, in western Hawaii Island.

On Kauai, a band extending from the south-central coast through central and into eastern Kauai was only moderately deficient in rainfall (over 50 percent of the May normal), but elsewhere rainfall was below half its average for May, and along the southwestern coast, below one-fourth.

On Oahu, rainfall reached even half or slightly above the May average only in a scattering of upland gages above Waianae and Honolulu, on the northern coast from Waimea to Kahuku, and near Kaneohe. All other areas were well under 50 percent of normal, and the western and northwestern coasts, from Nanakuli to Mokuleia, less than 10 percent of normal.

Maui was especially dry everywhere. Only the extreme eastern coast near Hana had even as much as half May's normal rainfall, while most of the central valley and southwestern coast

had no rain at all. The Kula District on Haleakala's southwestern slopes had less than 10 percent of its May average. Even in ordinarily wet windward East Maui, most gages registered well under half their monthly average. This return of dry weather to areas not yet recovered from their recent prolonged drought was of great concern to agricultural and ranching interests on the island.

In the western two-thirds of Molokai, no reporting gage exceeded 5 percent of normal, while the eastern third had less than half its May average.

All of Lanai was dry. Coastal areas had no rain at all, while even upland gages near Lanai City received little more than a fourth of their normal May rainfall.

On Hawaii Island, South Kohala and the Hamakua coasts and uplands had under half, and in places less than one-fourth, their average rainfall for May, thus continuing the extended dry spell affecting those localities. Haina, for example, has exceeded its monthly mean rainfall in only one of the past 16 months. The balance of eastern Hawaii, from Honomu and Pepeekeo south of Pahoia and southwest nearly to South Point, registered above half (although still below) its normal May rainfall, as did most lower elevation gages in the Kona District.

At the Federal Building in downtown Honolulu, May's rainfall total of 0.10 inch was the second lowest since 1905 when records began there. Only May 1949 had less, with 0.06 inch.

Kahului Airport, Maui, had its driest May -- only a trace of rain -- since records began in 1952.

As the list below shows, a number of other long-term gages had their driest May of record.

Stations With Less Rain in May 1972 than in Any Previous May

(25 years of record or more, only)

Station	Length of Period (Yrs.)	Previous Least May Total (Inches)	May 1972 (Inches)
KAUAI			
Waiawa	68	0.17	0.09
OAHU			
Opaeula	68	0.31	0.28
MAUI			
Haleakala Ranger Stn	34	0.64	0.38

H A W A I I - M A Y 1 9 7 2

SPECIAL WEATHER SUMMARY - Continued

Station	Length of Period (Yrs.)	Previous Least May Total (Inches)	May 1972 (Inches)
MAUI - Continued			
Nakalele	35	0.93	0.16
Paia	68	0.24	0.04
HAWAII			
Manuka	44	1.69	1.25

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DAILY PRECIPITATION

HAWAII
MAY 1972

Station		Total	Day of Month																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ISLAND OF KAUAI																																	
ANAHOLA 1114	A	1.84	.17							.03						.45								.40	.04	.10					.30	.35	
BYOVESWOOD STA 985	A	3.00	.10	.03	.02	.03			T						2.10	.01	.01	T		.01				.29	.05	.10	.02				.06	.13	.04
EAST LAHAI 934	A	2.22	.25	.08	.06	.02	T			.05			.07		.23	.13							.13	.20	.44	.05	.02				.15	.28	.06
ELEELE 927	A	.90													.90	T							.04							T	.11		
KILAUEA 1110	A	1.92	.18		.02					.03					.65								.35	.07	.25	.02					.15	.20	
HALEMANAHO 1006	A	3.76	.57	.34	.09	.07	.02	*		.26	.04	.03	.03	.35		.35	.09	.04					.27	.09	.33	.12				.11	.51	.05	
HUKIPU 945	A	1.37	.03	.02	.10										.23																		
ILILIULU INTAKE 1050	A	12.81	.93	.23	.73	.13			.67		.06	1.27	.37			3.35	.42	.10		.39			1.76	.36	.71					.35	.78	.20	
INTAKE MAINIMA PC 1086	A	1.41																											.36		1.05		
KANALOHULU 1075	A	.73	.09		.03								.05	.06	.20						.10		.07	.02					.03	.02	.04	.02	
KANEHA RESERVOIR 1092	A	6.01	.50	.25	.20	.15	.05	*		.11	.05	.35			1.65		.11	.05					.45	.06	.35	.08				.55	.95	.10	
KAPAA STABLES 1104	A	2.06	.18	.09	.02				.20	.03					.52			.04					.26	.12						.20	.25	.15	
KEALIA 1112	A	1.27	.07						.03						.65								.10	.15	.02					.10	.25		
KEKAMA 944	A	.09							.06																						.10	.25	
KILAUEA 1134	A	1.98	.25		.17	.03			.09						.12				.03				.60	.10	.04						.50	.05	
KILAUEA FIELD 17 1135	A	3.14	.23	.05	.33	.20	.05	*		.04	.05	.06			.50		.10		.06				.37	.20	.18					.62	.10		
KILAUEA POINT 1133	A	1.57	.03	.02	.10					.04					.65	.06	.03				.01	.03		.15	.01	.03		.09	.32	.15	.04		
KOLO 1033	A	.64													.25																	.14	
KOLOA 936	A	3.90	.15	.18	.08	.05	*		.16						1.80	.28							.20	.07	.49	.04	.02				.16	.20	.02
KOLOA MAUKA 994	A	4.60	.39	.09	.07	.09	.03	*	.07	.06	.02	.12	.24		1.66	.17	.06	.02					.39	.31	.15					.15	.33	.11	
KOLOKO RES 1137	A	3.42	.24	.11	.30	.15	.05	*		.09	.06				.80	.04							.37	.17	.17						.71	.16	
KUKUIULA 935	A	1.28	.01	.07	.01	.01			.13						.75	.04							.07	.03	.04	.02	.01				.04	.05	T
LIHUE VARIETY STA	A	1.97	.02	.09	.09				.29			.08		.03	.25	.01	.02			.03		.03	.22	.10	.13	.02				.26	.32	.01	
LIHUE 1020	A	1.27	.13	.06					.05	T					.11	.09							.02	.10	.15					.17	.32	.01	
LIHUE WSD 1020.1 AP	//R	.75	.03		T			.06	T				.01	T	.08	.02	.01				T	.02		.01	.02				.12	.33	.03	.01	
MAKAHUEA POINT 940.1	A	.48	.02	.03				.08						.01	.01	.03	.01		.01			.02	.01	.03					.19	.02	.01		
MAKAMELI 965	A	.24							.15				.21		.03	.02														.02	.01		
MANA 1026	A	1.00	.08						.06					.04	.02																	.03	
MOHINI UPR CROSS 1083	A	1.41	.13		.03	.03	*		.12					.06	.25	.18							.22	.06	.10	.05	*			.12	.06	.06	
MOLOAA 1145	A																													.26	.29		
MOUNT WAIALEALE 1047																																	
NIU RIDGE 1035	R	1.15							.70							.25																.20	
N WAIIUA DITCH 1051	A	12.26	.76	.26	.40	.26	*		.40		.10	1.22	.44		3.86	.26	.16						1.70	.26	.46	.10				.50	.80	.30	
PH WAIIUA 1115	A	2.39	.02	.10	.10	.02			.04	.15				.03	.28	.14	.01					.05	.28	.25	.22	.06	T			.01	.45	.12	.06
PRINCEVILLE RANCH 1117	V	2.59	.23	.08	.39	.12					.01				.33								.55	.18	.04	.03					.34	.09	
PUEHU RIDGE 1040	A	.94				.10	.05	*		.56						.26																.12	
PUNI 1013	A	2.27	.36	.09					.06				.05			.14	.03							.19	.29	.25	.02				.18	.30	.09
RESERVOIR 6 1004	A	3.41	.43	.17	.09	.06	.02	*	.14	.02			.25		.56	.14	.13							.19	.29	.25	.02				.38	.18	
WAIHANA 930	A	1.69	.06	T											1.41	T							.02	T	.08	T	T			T	.		

HAWAII
MAY 1972

HAWAII
MAY 1972

See reference notes following Station Index

DAILY PRECIPITATION

Continued

HAWAII
MAY 1972

Station		Total	Day of Month																															MAY		1972
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
KEALAKEKUA 20.2	A	4.46	.03		1.69				.16	.01	.26			.05		T	T	.06	.31	.02		.31		T	.08	.53	.32	.03	.31				T	.29		
KEMENA 181.2	A	3.00		*	*								*	*	*					*	*	*	*						*	*	*	*	*			
KIDILAKAA A & F 6	A	11.18	.11	.17	.33	.04	1.69	1.22		.01	.91	.57	.02	.42	.71	.45	.13	.55	.05	.09	.44	.01	.59	.94	.31	.11	.48	.22	.24	.02	.01	.06	.28	3.00		
KIPA 89.2	A	2.68	1.22	.08			.28	*			.47	.14						.09							.15	.05	.11	.01	*			.04				
KOMALA MISSION 175.1		1.75	T	.08		T	.17	.21		.58	.13	T	*	T		*	T	.08		T	.14	T	T	.22	T	*	.02	.10	T	*		.02	T			
KOIAHAE LOWER 196	A	3.01					1.05	*		*		*		.75	*				*	T	.18	*		.22	T	*	.05	.13	.95		1.03	*	*			
KONA (KAHUA) 68.3	A	3.61	.01								2.09		.31	*				T								.05	.13	.95		.01			.06			
KONA VILLAGE 93.8	A	.24																															.01			
KUKAIAU 222	A	2.70	.02	.05		1.05	.62		.82	.01						.01						.01	T	.08	T		.15					.04	.01			
KUKUIHAELE HIC 199		1.67		.06			.24			.59	.46															.04	.03		.02	.05	*	*	.06	.08		
KUKUIHAELE MILL 206	A	1.41	.01	.07	.05		.16	*		.50	.38															.04	.03		.02	.05	*	*	.06	.08		
KULANI CAMP 79	A	5.81	1.10	.09	.16	.08	.35	.33	.01	.09	.04	.16	.06	.09	.40	.09	.32	.03	.03	.21	.07	.26	.90	.40	.14	.23	.07	.07	.03	*	.08	.03	*			
KULANI MAUKA 76	A	1.60	.05	*	*		.02	.05		.10	*			*	*	*						.10	.04	.05	.04		.63									
KULANI SCHOOL SITE 78	A	3.55	*	*	*	*		.80	*			*	*	*		.57	.52	*					.83	*						1.35	*	*	*	*		
LANIHAE 68.2		7.91	.65		.35					1.60		.17						.09			.54				.88	2.62		.68				.05	.28			
NAKAMALAU 103		.33		.08					*	.90																										
NAUKA 2	A	1.25					.07	.03	*	.01	.51	.05				.02	.25	T					*	*	.15	T	.20		T			T				
MAUNA LOA SLOPE 085		1.38							*																											
MIDDLE HOLUALOA 68.1	A	2.63	*	*	.30		*	*	*	1.00	*	*	*	*	*	*	*	.10	*	*	*	*	*	*	.50	.28	.04		.44	.38	*	*	*	.03		
MIDDLE PEN 147.1	A	.00																																		
MOAULA 18	A	1.30	*	*																																
MOUNTAIN VIEW 91	A	6.63	*	.13	.40	.20	.48	.31	.03	.18	.60	.16	.40	.25	.38	.18	.15	.06	.08	.20	.06	.54	.40	.03	.21	.27	.15	.42	.02	*	*	.16	.18			
NAALAEU 14	A	1.12	.55			.01	.01								.03	*		.20	T						.16			T	.14							
NAPOOPOO 28	A	2.34	.00							.85	*	*	*	*	*	*	*								.53	*	*	*	*	*	*	*	.32	*		
NIULII 179	A	2.79	1.16	.12		.08	*		*	.77	.05	*		*	*	.17				.19				.06	.03	.10	.06									
ODAKA 223	A	3.46	.02	.17	.26	T	.85	.33		.99	.18	.01				.01		.54	.08	.02	T	.17	.01	.02	.21	.02	.03	.01	T		.02	.03	*			
OPHIHAE 2 24.1	A	2.35	*	.16	.10		.10		.07	T		.02	.06	.02	T	.10	.54	.08	.02		.02	T	.53	.33	.06	.04	.07	T		.03	T	*	*			
ORCHID LAND EST 91.5	A	5.38					.25	.7				.52	.11												.05											
PAAHUAU 217	A	1.67	.05	.01		.83	.10			.52	.11																									
PAAULI 221	A	1.76	.05	.08		.54	.66	.37	T						.01	.01								.03	T	T					.01					
PAHALA 21	A	1.69	.25				1.37					.02	.06	.10	.19	.09	.07	.05	.20	.24	.11	.48	.36	.01	.39	.62	.27	.30	.02	*	.13	.35	.05			
PAHQA 65	A	6.72		.29	.08	.02	.08	.94	.10	.56	.39	.17	.06	.10	.19	.09	.07	.05	.20	.24	.11	.48	.36	.01	.39	.62	.27	.30	.02	*	.13	.35	.05			
PAPAKO 37	A	2.60																																		
PAPAIKOU 144.1	A	7.28	.02	.81	.03	.21	.08	1.34	.07	.23	.38	.09	.23	.40	.17	.07	.21	.04	.14	.42	.05	.25	.45	.36	.02	.13	.29	.11	.12	.01	.27	.28	T			
PAPAIKOU MAUKA 140.1	A	9.33	.30	.28	.38	.06	1.14	.83	.08	.53	.33	.01	.33	.70	.81	.10	.39	.08	.04	.08	.05	.34	.71	.32	.09	.06	.48	.22	.03	*	.16	.40	T			
PIIHONGUA 89	A	14.08																																		
PORAKULOA 107	A	.00																																		
PUAKO 95.1	A	.16	T														.02	T						.08	.06	T										
PUU KIME 120	A	.78	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
PUU LAU 102.1	A	.32	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
PUU LEHUA 73	A	1.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.32		
PUU MAI 113	A	.74	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.50		
PUU MO 82	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.74			
PUU WAAHAA 94.1	A	3.27		.22	.06					1.10		T	.02				.05		*	.06																

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover	sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
							02	08	14	20										
HILO WSD 87 AP	15	1.2	6.0	18	E	20+	90	82	68	85	2	12	13	2	0	0	29	39	7.7	
HONOLULU WSD 703 AP	6	13.1	14.6	27	NE	31	74	69	53	69	12	5	0	0	0	0	17	74	5.8	
KAHULUI WSD 398 AP	5	11.5	12.9	29	NE	31+	82	68	54	73	5	0	0	0	0	0	5	73	5.7	
LIHUE WSD 1020.1 AP	5	9.8	10.6	19	NE	29+	79	75	68	76	4	11	2	0	0	0	17	59	6.9	

DAILY TEMPERATURES

HAWAII
MAY 1972

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	68 53	70 51	68 48	71 48	71 48	68 44	68 54	73 50	72 49	71 46	70 55	70 51	64 56	69 59	72 56	73 54	72 51	70 47	69 44	72 52	69 55	73 52	71 55	71 53	69 52	73 48	73 48	71 55	70 56	70 56	69 54	70.3 51.6
KILAUEA POINT 1133	MAX MIN	78 72	77 73	79 73	79 74	79 71	77 73	79 74	79 73	79 74	79 73	80 71	79 74	80 70	84 75	79 74	80 74	80 74	80 72	80 73	81 74	79 75	80 73	79 74	79 74	79 74	81 75	79 74	80 71	79 74	80 75	78 75	79.4 73.4
LIHUE WSO 1020.1 AP	MAX MIN	80 71	80 72	79 73	80 72	81 70	79 69	80 71	81 73	82 74	81 74	82 73	81 73	78 72	80 69	81 73	82 74	82 74	82 74	82 74	82 73	83 74	83 71	83 72	82 73	82 66	82 70	82 69	82 72	83 73	83 73	81 75	81.2 72.1
MAKAHUEA POINT 940.1	MAX MIN	81 71	80 69	81 70	81 68	82 68	81 68	81 71	81 70	82 70	86 67	81 65	82 65	83 68	77 64	87 71	82 65	82 65	82 65	84 62	82 65	82 66	83 64	83 64	83 62	83 64	81 66	82 66	83 64	83 66	83 66	83 66	82.1 69.5
HANA 1026	MAX MIN	85 61	86 63	85 61	84 63	88 65	86 62	87 65	87 62	86 63	87 65	87 62	88 67	86 68	81 64	89 65	89 64	89 65	89 65	85 62	84 65	89 66	87 64	88 64	88 62	88 64	86 66	88 66	87 64	86 66	83 66	88 62	86.6 83.9
NIU RIDGE 1035	MAX MIN	80 57	81 59	80 60	80 60	79 60	80 60	80 60	81 59	80 58	82 59	81 60	82 62	83 63	82 61	83 62	83 60	81 63	80 60	80 62	80 62	81 63	80 63	81 60	81 60	80 60	80 58	81 58	80 60	81 61	82 59	82 59	81.0 60.2
WAIHI LOWER 1054	MAX MIN	79 61	79 61	79 64	80 63	79 60	79 59	79 64	80 61	80 63	82 67	82 65	80 65	79 65	75 61	80 67	80 66	79 64	81 62	82 61	82 64	79 64	79 64	79 64	79 64	82 62	82 58	82 57	81 58	78 66	79 66	79 64	79.8 62.8
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	82 63	82 65	83 63	82 61	84 63		84 64	84 65	85 65	85 65	86 65				85 66	86 67	83 66	84 64	85 64			84 65	84 66	84 67	84 65	83 62				84 63	83 67	83.9 64.6
HONOLULU WSO 703 AP	MAX MIN	84 68	84 69	83 68	85 66	85 69	82 68	84 72	85 71	86 69	83 70	82 69	82 70	80 71	87 70	86 73	85 72	85 69	86 70	85 70	85 71	85 71	84 71	83 70	84 70	85 68	85 68	85 72	85 72	85 72	85 72	84.4 70.1	
HONOLULU SUBSTA 704	MAX MIN	78 71	79 71	79 71	80 70	78 72	78 71	79 71	80 71	80 71	82 71	78 71	81 72	79 72	81 74	81 73	80 70	80 73	80 73	80 72	80 72	81 73	81 70	81 71	79 72	79 72	79 72	80 71	80 72	79 73	80 73	79.7 71.7	
KAHUKU 912	MAX MIN																																
KANEHE MAUKA 781	MAX MIN	78 69	80 71	79 63	78 67	81 70	79 70	80 70	81 71	80 67	81 69	81 69	79 70	81 70	80 72	79 70	80 69	79 71	80 71	81 66	81 71	81 66	81 67	80 67	80 67	80 67	80 67	81 67	80 67	80 67	80 67	80.1 68.9	
LUALUALEI 804	MAX MIN	83 68	83 68	84 67	83 65	84 68	82 68	85 67	85 68	84 67	83 66	83 67	84 67	81 68	87 69	86 67	86 73	84 69	84 67	85 72	84 72	84 71	84 71	84 71	84 71	84 71	84 71	84 71	84 71	84 71	85 71	83 73	84.7 68.9
MAKAPUU POINT 724	MAX MIN	74 67	76 57	76 57	75 63	77 67	76 62	76 58	77 68	77 67	74 68	77 68	77 68	73 57	73 67	74 59	78 56	73 70	76 64	77 69	78 68	78 68	78 68	78 68	78 68	78 68	78 68	77 68	77 68	78 68	78 70	76.0 64.9	
OPAELA 870	MAX MIN	75 58	75 59	75 58	75 60	75 60	74 62	72 62	75 57	75 58	75 61	77 61	75 63	81 61	80 61	80 60	80 63	80 60	80 58	80 58	78 60	77 65	80 62	80 63	80 63	80 62	80 62	80 62	80 62	80 62	80 62	77.7 60.0	
PRI WAIHANA 820.2	MAX MIN	80 61	80 61	82 61	81 62	83 61	79 61	79 64	82 60	84 61	83 61	86 63	85 63	80 64	79 64	84 64	83 66	82 65	82 61	83 61	83 61	83 61	83 61	83 61	83 61	83 61	83 61	83 61	83 61	83 61	83 61	81.9 62.7	
WAIALEA 896.3	MAX MIN	80 70	80 70	80 69	81 67	81 70	80 70	80 70	82 70	82 70	83 71	84 71	84 71	83 71	84 67	83 67	83 69	82 69	82 69	82 68	82 70	82 69	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	82 67	81.7 68.9	
WAIALUA 847	MAX MIN	78 61	80 59	82 59	82 59	83 59	79 59	80 59	82 60	84 60	85 62	84 63	82 63	82 67	76 63	83 63	85 64	83 60	82 60	82 60	82 62	83 64	83 61	82 61	82 58	82 58	82 58	81 58	81 58	82 58	82 58	82.2 61.2	
WAIKIKI 717.2	MAX MIN	81 69	82 68	82 68	82 64	83 67	83 69	82 69	85 69	83 67	86 68	84 6																					

See Reference Notes Following Station Index

Continued

DAILY TEMPERATURES

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Station		Day of Month																															MAY	1972
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
KULA SANATORIUM 267	MAX MIN	70 56	71 55	70 54	72 55	71 58	71 57	69 58	71 57	70 57	70 58	72 59	72 59	73 60	72 62	71 58	71 56	72 57	70 54	72 53	72 54	70 57	73 57	72 57	70 55	68 55	68 52	71 53	72 54	72 59	73 55	71 55	71.0 56.3	
LAHAINA 361	MAX MIN	84 64	85 64	84 65	84 64	85 65	84 63	84 64	85 64	85 65	86 66	86 68	85 67	80 69	85 68	86 68	85 66	85 64	84 65	85 64	87 67	87 66	81 66	84 66	85 66	86 67	84 64	85 67	86 70	87 70	85 67	85 66	84.6 65.9	
WAILUKU 386	MAX MIN	78 66	79 68	78 67	79 68	79 69			81 67	81 69	80 67	83 66	83 67		84 69	80 69	80 68	80 68		82 67			82 67	81 68	80 69	78 68	81 68			80 67	80 70	80.4 67.9		
* * *																																		
ISLAND OF HAWAII																																		
HAINA 214	MAX MIN	78 63	79 63	78 65	78 65	79 65	78 63	78 64	77 63	79 63	80 64	80 66	80 66	79 67	77 67	78 67	80 67	79 66	80 65	79 65	81 65	79 64	80 64	80 65	78 65	78 65	80 66	80 63	81 64	78 66	80 66	79.0 64.9		
HAWAII VOLCNS NP HO 54	MAX MIN	66 52	67 52	68 52	63 53	70 52	67 50	68 51	67 52	65 50	71 51	70 52	72 56	65 52	67 55	73 53	68 50	67 50	67 52	66 48	70 52	66 52	66 51	66 51	68 49	68 49	68 50	70 50	53 51	68 51	67.5 51.5			
HILO WSD 87 AP	MAX MIN	81 63	81 63	76 64	80 65	80 65	82 64	80 65	80 67	83 65	83 67	82 68	79 68	82 65	82 65	80 64	81 64	82 65	83 62	81 66	82 67	83 66	78 65	81 65	81 63	82 63	81 63	82 62	81 66	82 64	81.0 65.7			
KAINALIU 73.2	MAX MIN	77 61	75 60	77 60	75 60	78 62	76 62	76 62	77 62	79 63	78 62	78 63	78 62	78 64	76 65	78 65	74 64	75 60	77 59	75 61	76 58	78 60	75 60	75 59	74 62	73 60	75 60	75 60	76 61	74 60	76 63	76.0 61.2		
KAMUELA 192.2	MAX MIN	69 56	70 55	71 57	70 58	73 58	69 57	76 57	70 57	71 57	75 53	78 56	79 56	76 59	79 59	76 59	76 57	70 52	71 56	73 58	70 54	70 56	69 57	70 58	69 57	71 56	71 57	72 56	71 57	72 56	72.3 56.7			
KEAAU 92	MAX MIN	78 63	79 62	77 63	73 59	78 63	79 63	79 64	78 65	77 64	81 59	81 60	80 60	79 66	79 67	81 65	80 63	78 63	79 63	79 62	81 62	79 64	78 62	79 64	77 63	78 62	76 61	80 62	80 64	78.8 62.9				
KEALAKEKUA 26.2	MAX MIN	75 62	75 61	78 61	75 59	78 61	78 63	76 63	77 61	77 64	78 64	78 63	78 63	76 64	78 65	76 65	75 62	77 60	77 62	78 59	77 60	77 60	74 60	74 61	74 61	76 59	73 60	75 61	77 60	76 63	77 61	76.4 61.7		
KOHALA MISSION 175.1	MAX MIN	76 64	78 64	78 66	77 66	78 66	77 66	78 65	78 65	77 66	79 66	82 67	81 67	78 68	78 67	78 66	79 65	80 66	80 66	78 66	79 66	78 65	79 65	78 65	76 65	77 64	79 65	79 66	79 66	79 67	81 68	78.4 65.9		
KONA (KAILUA) 68.3	MAX MIN	83 68	83 68	83 70	82 67	83 68		86 72	87 73	85 74	84 71	83 70		85 70	81 71	82 69	83 69		84 70			84 67	84 68	80 69	79 67	82 66			84 67	81 69	81 70	83.1 69.3		
KULANI CAMP 79	MAX MIN	59 48	59 47	61 47	61 44	70 45	61 43	62 44	61 47	62 45	62 46	61 46	62 53	66 48	59 46	66 45	62 46	62 48	61 48	62 49	66 46	66 46	64 48	64 48	61 49	62 46	59 46	56 42	63 44	67 43	62 47	61.8 45.9		
MAUNA LOA SLOPE DBS	MAX MIN	48 30	48 32	47 33	47 30	50 29	45 29	46 32	48 29	47 32	48 33	49 33	54 35	48 38	50 37	50 35	51 32	52 36	54 34	51 37	50 34	53 33	52 37	49 34	47 30	53 32	58 34	55 40	60 38	61 41	50.9 33.8			
MOUNTAIN VIEW 91	MAX MIN	73 55	75 58	74 59	68 59	75 58	75 56	75 56	71 57	77 56	77 60	75 61	78 61	75 59	75 59	75 59	77 59	75 58	74 59	78 57	78 58	78 59	78 58	78 59	76 58	70 59	71 59	68 58	76 55	75 55	77 56	74.7 57.9		
NAALEHU 14	MAX MIN	77 62	78 62	74 64	74 64	78 62	78 62	77 65	78 65	79 67	78 68	79 68	79 68	79 68	78 67	79 65	78 63	78 65	77 64	77 64	78 65	79 65	78 66	77 64	77 64	77 61	75 61	79 61	79 61	77 67	79 67	77.5 64.6		
OOKALA 223	MAX MIN	77 65	78 64	78 65	77 66	76 65	78 65	79 67	79 66	78 66	79 66	79 66	79 66	79 66	80 67	80 67	79 66	79 66	79 66	78 66	80 66	79 66	78 66	79 66	77 65	79 66	78 66	80 66	80 66	80 67	78.7 65.9			
OPIHIHALE 2 24.1	MAX MIN	73 57	78 60	74 58	78 58	78 56	79 56	78 57	78 57	80 62	81 61	81 61	77 61	80 66	80 65	73 65	76 59	75 58	77 59	74 56	77 59	74 58	74 58	71 61	72 58	73 58	78 59	77 61	76 59	77 60	75 59	76.4 58.7		
PAHALA 21	MAX MIN	78 60	80 61	79 63	74 61	80 60		78 60	77 63	80 61	78 61	77 67		80 63	80 61	79 59	78 62	78 59			78 61	77 63	78 62	75 61	78 63			81 58	77 63	79 63	78.3 61.6			
PUAKO 95.1	MAX MIN	84 70	85 66	84 68	88 66	85 66	84 69	84 68	85 68	83 67	83 71	83 71	85 72	82 73	84 70	87 68	86 68	84 69	86 68	83 71	85 66	84 67	83 71	82 66	85 67	84 68	85 69	83 68	82 69	88 68	83 71	84 69	84.3 69.0	
UPOLU POINT USCG 159.2	MAX MIN	79 71	82 72	82 66	79 70	83 70	82 70	81 73	78 71	80 71	83 71	80 64	86 71	85 73	81 70	89 70	84 70	82 68	83 68	83 68	84 68	83 68	83 68	84 69	83 68	81 66	82 67	82 68	82 69	82 70	83 69	82.4 69.1		

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WSD 1020.1 AP	EVAP WIND MAX MIN	.32 218 78 58	.33 209 80 59	.35 203 81 59	.32 153 81 60	.33 139 83 59	.32 154 82 58	.20 145 75 59	.23 156 79 59	.31 183 81 60	.31 187 81 61	.26 111 84 63	.27 88 83 62	.15 150 79 62	.11 95 76 60	.10 163 76 60	.27 185 82 61	.35 194 83 60	.39 196 83 60	.43 177 82 60	.38 179 83 60	.43 199 83 61	.36 176 81 61	.38 223 82 61	.31 165 82 60	.33 165 82 59	.32 119 82 58	.36 55 83 59	.27 171 82 59	* 185 81 59	.55 200 79 61	.23 5038 80.8 59.9	
* * * ISLAND OF OAHU																																	
HONOLULU DBSERV 702.2	EVAP WIND MAX MIN	.30 37 88 62	.37 37 91 62	.36 31 92 63	.30 21 86 62	.30 25 92 62	.37 30 91 63	.30 90 90 64	.30 89 85 62	.23 85 86 64	.30 91 86 66	.30 90 89 66	.19 89 83 68	.15 83 89 66	.30 89 83 65	.38 92 92 65	.36 90 90 65	.35 90 90 62	.37 91 82 62	.26 35 82 64	.32 37 83 66	.32 31 83 64	.36 39 87 64	.40 90 87 65	.32 87 85 63	.32 85 92 61	.33 91 90 62	.45 90 90 64	.38 41 89 66	.39 91 89 64	.45 1021 89.0 63.9		

See Reference Notes Following Station Index

HAWAII
MAY 1972

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STATION INDEX

HAWAII
MAY 1972

CONTINUED

MAY 1972																									
STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL MFG. ACTS.										TEMP.	PRECIP.	EVAP.	SPECIAL MFG. ACTS.	
ISLAND OF HAWAII																									
MOUNTAIN VIEW 91	A 6552	02	PUNA	2	19 33	155 07	1530	6A	6A		PUNA SUGAR CO	PUU MALI 113	E 8515	01	HAWAIIA	1	19 55	155 26	6960					KUKAIAU RANCH CO	
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A		HUTCHINSON SUGAR CO	PUU OO 82	8550	02	S HILO	1	19 44	155 23	6340	9A				MISS JACKIE BENLEH	
NAPODPOD 28	A 6597	04	S KONA	4	19 28	155 35	375	7A			KONA EXPERIMENT STA	PUU MAWAA 94.1	8555	05	N KONA	1	19 47	155 31	2520	7A				GILLINGHAM RANCH INC	
NIULII 179	A 6806	01	N KONA	1	20 14	155 45	75	9A			KOHALA CORPORATION	SAOOLE ROAD 1 84	8590	02	S HILO	2	19 42	155 12	2340					BOARD OF WTR SUPPLY	
ODKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A		LAUPAHEHONGE SUGAR CO	SOUTH POINT CORRAL 3	F 8675	03	KAU	3	18 57	155 41	300					HAWAIIAN PANCH COMPANY	
OPILIMALE 2 24.1	A 7166	04	S KONA	4	19 14	155 53	1270	7A	7A		MISS C. LEONARD	UMUKA 118	8780	01	HAWAIIA	1	19 59	155 23	3420	8A				KUKAIAU RANCH CO	
OPCHIO LAND EST 91.5	A 7183	02	PUNA	2	19 34	155 00	445	VAR			BOARD OF WATER SUPPLY	UPULU POINT USCG 159.2	8830	01	N KONA	1	20 15	155 53	61					U S COAST GUARD	
PAUHAU 217	7204	01	HAWAIIA	1	20 05	155 26	415	7A			PAUHAU SUGAR CO	WAIKANA SC0 89.2	9025	02	S HILO	2	19 40	155 08	1050	7A				SMITHSONI KANESHINO	
PAUHAU 221	7312	01	HAWAIIA	1	20 03	155 22	600	7A			HAWAIIA HILL CO	WAIKANONOUA 178.6	9350	01	N KONA	1	20 08	155 47	3830	7A				KAMUA PANCH	
PANALA 21	A 7421	03	KAU	3	19 12	155 29	870	8A	8A		HAWAIIAN AGR CO	NEW STATIONS													
PANOA 65	7457	02	PUNA	2	19 30	154 57	670	9A			PUNA SUGAR COMPANY	ISLAND OF OAHU													
PAPAIO 37	A 7643	03	KAU	3	19 22	155 28	5000				HAWAIIAN RANCH CO. INC.	KAENA POINT 841.3	2410	04	WAIKANA	4	21 34	158 13	1240	9A					LOCKHEED BALL MISS DIV
PAPAIOU 144.1	7711	02	S HILO	2	19 47	155 08	1270	7A			MAUNA KEA SUGAR CO.														
PAPAIOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270	7A			MAUNA KEA SUGAR CO.														
PIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730				MAUNA KEA SUGAR CO.														
PONAKULA 107	A 8063	02	HAWAIIA	2	19 45	155 32	6311	VAR			STATE DIV OF FORESTRY														
PUAKO 97.1	A 8184	05	KOHALA	5	19 39	155 50	5	8A	8A		ERWIN W. RAPP														
PUU KINE 120	A 8393	01	HAWAIIA	1	19 34	155 24	7350				KUKAIAU RANCH CO														
PUU LAU 102.1	A 8452	05	HAWAIIA	5	19 30	155 34	7440				STATE DIV OF FISH-GAME														
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880				W.M. GREENWELL RANCH														

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-MONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-NONO INTRA-ISLAND DIVISIONS LANAI: 1-NONO INTRA-ISLAND DIVISIONS MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in "F.", precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: 20 cents per copy, monthly and annual; \$2.50 per year. (Yearly subscription includes the Annual Summary.) Checks and money orders should be made payable to the Superintendent of Documents. Remittance and correspondence regarding subscriptions should be sent to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

Willis H. Hoggard
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USCOM-NOAA-ASHEVILLE, N. C. 28802

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CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

JUNE 1972

Volume 68 No. 6

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature												Precipitation														
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet									
										Max. Min.								Total	Max. Depth on Ground	Date	No. of Days						
										8° or less	32° or less	32° or less	32° or less								10 or More	50 or More	100 or More				
ISLAND OF KAUAI																											
ANAMOLA 1114	A	71.4	53.5	62.5		77	15+	47	22+	0	0	0	0	4.17	2.52			.0	0		5	0	0				
KANALOHULUHULU 1075														1.88				.0	0								
KAPAA STABLES 1104	A													4.96				.0	0								
KILAUEA FIELD 17 1135	A													5.49	.44			.0	0								
KILAUEA POINT 1133	A	82.2	75.3	78.8		88	9	71	7	0	0	0	0	1.89		.65	9	.0	0		5	1	0				
KOLCA 936	A													3.50	-.19			.0	0				0				
LIHUE WSO 1020.1 AP	//R	83.1	72.0	77.6	1.0	85	15+	67	5	0	0	0	0	1.74	.28	.51	9	.0	0		5	1	0				
MANA 1026		87.7	67.1	77.4	.7	91	15	64	28	5	0	0	0	.40	-.24	.22	23	.0	0		1	0	0				
N WAILUA DITCH 1051	A													11.08				.0	0								
PH WAINIHA 1115														4.67	-1.31	.58	11	.0	0		16	2	0				
PUEHU RIDGE 1040														.49		.33	23	.0	0		1	0	0				
WAIHAWA 930	A													1.31	-.01			.0	0				0				
WAIHAI LOWER 1054		80.4	63.9	72.2		83	4	58	5	0	0	0	0	6.91		.87	18	.0	0		18	5	0				
WAIHEA 947														1.60	1.32	1.42	23	.0	0		2	1	1				
ISLAND			73.7											3.58				.0									
ISLAND OF OAHU																											
HONOLULU OBSERV 702.2														1.46		.74	11	.0	0		2	2	0				
HONOLULU WSO 703 AP	R	85.7	72.1	78.9	1.0	88	22+	66	5	0	0	0	0	.79	.46	.41	3	.0	0		2	0	0				
KAHUKU 912	A	86.7	74.0	80.4	3.7	87	30+	71	5	0	0	0	0	1.94	.53	.39	9	.0	0		8	0	0				
KANEDHE MAUKA 781		81.7	70.9	76.3	.4	84	23+	66	6	0	0	0	0	2.47	-.47	.38	4	.0	0		8	0	0				
KODIAU DAM 833	A													6.15	-2.07	1.57	27	.0	0		13	3	2				
LUALUALEI 804	A	85.7	70.0	77.9		89	20+	63	22	0	0	0	0	.79				.0	0								
MAKAPUU POINT 724		78.2M	69.5	73.9M		85	12	60	1	0	0	0	0	.27	-.23	.12	6	.0	0		1	0	0				
NUUANU RES 4 783														4.70				.0	0								
OPAEULA 870	A	78.7	61.9	70.3	-1.3	83	11	58	30+	0	0	0	0	.40	-2.20	.12	3	.0	0		1	0	0				
PALDLD VALLEY 718	R													4.96	-3.83	1.02	8	.0	0		15	2	1				
PRI WAIHAWA 820.2	A	83.2	65.0	74.1		87	13	61	6	0	0	0	0	1.01				.0	0				0				
WAIHAWA OAM 863	A													1.27				.0	0				0				
WAIHOLE 837	A													6.38	-1.62	1.05	9	.0	0				1				
WAIHOLE 896.3		83.7	69.6	76.7		86	13+	61	4	0	0	0	0	1.98		.35	3	.0	0		6	0	0				
WAIHOLE 847	A	84.1	64.4	74.3	-1.0	89	13	60	6	0	0	0	0	.79	.07	.57	4	.0	0		1	1	0				
WAIKIKI 717.2		84.8M	70.3M	77.6M		87	7	66	23+	0	0	0	0	.39		.15	11	.0	0		2	0	0				
WAIMANALO EXP FARM		82.7	70.4	76.6		85	30+	65	5	0	0	0	0	1.05		.29	4	.0	0		4	0	0				
WAIKAMU 750	A													.64	.04			.0	0				0				
ISLAND			76.1											2.08				.0									
ISLAND OF MOLOKAI																											
KUALAPUU 534	A													1.23	-.56			.0	0				0				
MAKAPUU 542														1.63	-.56	.25	26	.0	0		7	0	0				
MAUNALO 511	A													1.88	1.13			.0	0								
MOLOKAI AP 524		80.6	69.4	75.0		85	13	65	2	0	0	0	0	1.90		1.60	4	.0	0		2	1	1				
ISLAND			75.0											1.66				.0									
ISLAND OF LANAI																											
LANAI CITY 672	A													1.36	-.06	.54	23	.0	0		1	0					
ISLAND														1.36				.0									
ISLAND OF MAUI																											
HALEAKALA 8 E 5 434	A	65.4	45.9	55.7		74	26	40	22+	0	0	0	0	1.75	-1.03	.62	28	.0	0		6	1	0				
HALEAKALA RS 338														1.29		.77	23	.0	0		1	1	0				
HANA AIRPORT 355		83.5	66.4	75.0		85	21+	63	7+	0	0	0	0	3.09		.52	10	.0	0		9	1	0				
HONOKOHUA 493	A													1.03	-.65			.0	0								
KANAPALI AIRPORT		83.8	68.8	76.3		88	13	66	29+	0	0	0	0	1.15		.64	3	.0	0		3	1	0				
KAHULUI WSO 398 AP	R	85.7	66.3	76.0	-1.2	88	24+	60	2	0	0	0	0	.29	.11	.20	3	.0	0		1	0	0				
KAILUA 446		77.6	65.7	71.7	-.2	80	23+	64	21+	0	0	0	0	4.56	-3.01	.51	9	.0	0		14	1	0				
KEANAE 346	A													8.50	-5.27			.0	0								
KIPAHULU 258														6.07	-1.69	.78	9	.0	0		18	4	0				
KULA SANATORIUM 267		72.0	58.2	65.1	.2	75	7	55	7	0	0	0	0	2.08	.39	.98	23	.0	0		6	1	0				
LAHAINA 361		85.7	67.0	76.4		89	11+	65	22+	0	0	0	0	.92	.86	.78	5	.0	0		2	1	0				
PAIA 406														.98	-.21	.47	4	.0	0				0				
WAILUKU 386	A	81.5M	69.5M	75.5M	-.9	85	13+	67	5	0	0	0	0	1.07	.73			.0	0								
ISLAND			71.5											2.52				.0									
ISLAND OF HAWAII																											
HAUNA 214		80.7	66.6	73.7	.7	84	23+	64	29+	0	0	0	0	1.21	-.71	.75	28	.0	0		2	1	0				
HAWAII VOLCNS NP HQ 54		69.1M	53.6M	61.4M	-.6	79	8	49	3	0	0	0	0	4.92	-.39	1.48	28	.0	0		2	1	0				
HILD WSO 87 AP	R	83.0	67.6	75.3	1.0	87	3	63	2	0	0	0	0	4.58	-2.21	.80	19	.0	0		14	2	0				
HUEHUE 92.1	A													6.43	1.93	3.75	11	.0	0		3	1					
KAINALIU 73.2		76.3	63.4	69.9		80	15	59	21	0	0	0	0	5.99	-1.96	1.20	12	.0	0		14	3	1				

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 69

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
JUNE

1972

Station		Temperature											Precipitation											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
											Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											90° or Above	32° or Below	32° or Below	0° or Below										
KEAAU 92		81.0	65.4	73.2	- .5	85	4	63	23+		0	0	0	0	4.89	- 2.97	.90	28	.0	0		17	2	0
KEALAKEKUA 26.2		76.7	63.1	69.9		80	6	60	23+		0	0	0	0	3.83		.71	16	.0	0		11	3	0
KONA (KAILUA) 68.3	A	84.2M	70.1M	77.2M		88	6	66	30+		0	0	0	0	2.08		1.22	20	.0	0		1	1	1
KUKUIHAELE HIC 199															1.31	- 1.73	.82	28	.0	0		1	1	0
KULANI CAMP 79		64.5	48.3	56.4		70	15+	41	2		0	0	0	0	4.48		.76	28	.0	0		13	1	0
PAMALA 21	A																		.0	0				0
POHAKULOA 107	A	79.8M	63.3M	71.6M	- .6	83	8+	59	21		0	0	0	0	1.61	.28	.12		.0	0			0	0
PUAKO 95.1	A														.47		.12	11	.0	0		1	0	0
PUU WAHAA 94.1	A	85.6	70.8	78.2		89	15+	66	12		0	0	0	0	1.68	- .44	.74	12	.0	0			1	0
UMIKOA 118															1.44	- .26	.38	28	.0	0			0	0
WAIKAE SC0 88.2															7.87		1.42	28	.0	0		17	6	2
ISLAND				70.7											3.31				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 92° ON THE 13TH AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 32° ON THE 20TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 18.07 INCHES AT MOUNT WAIKAELE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 2 STATIONS

GREATEST ONE-DAY PRECIPITATION: 4.66 INCHES ON THE 20TH AT LANIHAU 68.2, HAWAII

SPECIAL WEATHER SUMMARY

Mild weather prevailed over the State, with an otherwise uneventful June interrupted only by an episode of high waves, funnel cloud sightings, and record low atmospheric pressures.

On the 3d, a low pressure area (trough) 300 miles northwest of Oahu gave Lihue and Honolulu Airports their lowest sea-level pressure readings for June (29.80 inches) in 23 and 24 years of record, respectively. Pressures at Hilo and Kahului Airports were only 0.01 inch above their June record lows.

The low pressures were accompanied during the early morning of the 3d by showers that accounted for a good part of, and in some instances all, June's total rainfall on leeward Oahu, Molokai, Lanai, and Maui.

On the afternoon and evening of the 4th, high waves of undetermined origin (but generated possibly by an intense Southern Hemisphere storm near Lat. 65° S. and Long. 170° W., or by tropical storm IDA near the Solomon Islands, or by both) swept onto the southern shores of the islands. Swells of 10 to 12 feet were reported at Makahuena Point at the southern tip of Kauai and of 10 feet at nearby Poipu Beach. From about 3 p.m. to 10 p.m., waves up to 15 feet rolled into the narrow southward-opening entrance to Honolulu's Ala Wai Yacht Harbor. Shortly after 3 p.m., they capsized a 16-foot sailboat, and at about 3:45 p.m. an 18-foot sailboat and a 16-foot Boston Whaler. The 16-foot sailboat sank, the 18-foot boat righted itself, but with only the bare hull remaining, and the Boston Whaler lost all its equipment except the motor. At 5:30 p.m. a 30-foot sailboat, turned broadside by the high waves, lost some sails and rigging when the next wave broke across it, but managed to get back out to sea. The large waves occurred in sets of 6 to 10, with an average period of about 15 seconds, and appeared to build up suddenly from smaller waves at about 10-minute intervals.

High waves, presumably from the same source, were reported to have sunk two lighters loading copra at Washington Island (about Lat. 4° 43' N Long. 160° 24' W) on the 3d, but this has not been confirmed.

On the 10th, from 2:57 p.m. to 3:08 p.m., a dark cone-shaped funnel cloud was observed over the valley west of Pacific Palisades, Pearl City, Oahu. The funnel was described as sloping south-eastward, extending downward about 1,000 feet from dark cumulus clouds having a flat base at 2,400 feet and tops of undetermined height. Nearby ground observers remarked on the counterclockwise rotation of the funnel and the narrow diameter (estimated at 10 feet) of its base, as it

moved toward the southwest.

On the night of the 19th, debris and high water closed Kuakini Highway in Kona, Hawaii Island, following a few hours of heavy rain.

Dry conditions continued to plague residents and cattlemen in the Makawao District, on the western slopes of Haleakala, on East Maui. Although rainfall in the area was near normal, June is one of the very driest months, so that amounts were quite inadequate to replenish the water supply or to meet current demands. Pastures were reported as deteriorating. Beginning on the 16th, fire permits were required in the area.

Elsewhere in the State, rainfall varied widely. Some stations reported many times their June normals, although actual amounts were small. For example, the modest 1.12 inches at Kaunakakai, Molokai, was fourteen times its average for the month.

On Kauai, rainfall was relatively evenly distributed throughout the month. Some gages in the Moloaa-Kapaa area in eastern Kauai, between Elele and Waimea on the southwestern coast, and Kolo near the western coast, had several times their average June rainfall. The central mountains, northern areas near Hanalei, southern coastal districts near Wahiawa, and Mana in the western portion of the island, ranged between 50 and 100 percent of normal, while all other areas had above their June average.

Oahu was driest (below one-third the June normal) in upland regions near Opaepa in the Koolau Mountains, in scattered gages above Waianae, and near Mokuleia on the northwest coast. Elsewhere, amounts ranged from somewhat below to somewhat above their average for June.

Lanai City had an average June, while other gages on the island were wetter than normal.

On Maui, rainfall in the central valley and in the Ulupalakua area exceeded normal by two to ten times, with most of the rain falling on the 3d. Windward East Maui watersheds ran above 50 percent, but below normal.

On Hawaii Island, most gages read less than the monthly normal. The Hamakua and Hilo coasts, while not as dry as in some recent months, were still reporting below their June averages. South Kona and North Kohala were below 50 percent of normal. It was reported that the continuing dry spell in North Kohala might result in an earlier than usual harvesting of cane, and a faster phase-out of some jobs at the recently closed Kohala Sugar Company.

SPECIAL WEATHER SUMMARY - Continued

Stations With More Rain in June 1972 than in Any Previous June

(25 years of record or more, only)

Station	Length of Period (Yrs.)	Previous Greatest June Total (Inches)	June 1972 (Inches)
<u>KAUAI</u>			
Anahola	42	3.91	4.17
Kapaa Stables	32	4.44	4.96

Stations With Less Rain in June 1972 than in Any Previous June

(25 years of record or more, only)

Station	Length of Period (Yrs.)	Previous Least June Total	June 1972
<u>HAWAII</u>			
Ahua Umi	51	0.14	0.07

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HAWAII
JUNE 1972

See reference notes following Station Index.

DAILY PRECIPITATION

HAWAII
JUNE 1972

Day of Month

		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
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See reference notes following Station Index

DAILY PRECIPITATION

HAWAII
JUNE 1972

Continued

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KEALAKEUA 26.2	A	3.83	.02	.17	.23	.01			.02		.06	.21	.70	T	.05	.06	.71		.06	.16	.11	.03	.09	.17	.57	.02	.11	.02	T			.25		
KEHENA 181.2	A	5.18						5.18																										
KIDLAKE A & F 6	A	4.04																															4.64	
KIPA 89.2	A	9.06	.18	.04	.28	.02	T	.02	.83	.53	.32	.21	.01	.03	.67	.05	.25	.39	1.11	.54	.01	.47	.17	.52	.06	.15	.39	1.77	.63	.03				
KOHALA MAULILI 176	A	1.74				.09	.04	.02		.14			.10	.13	.02	.01				.52	.05							.12	.12	.36	.02			
KOHALA MISSION 175.1	A	1.50			.02		.06	.04			.20	.01	.02		.12	.03		.04	.21	.24	.05		T	T	T	.01	.11	.17	.17	T				
KOIALE LOWER 196	A	2.86		.02							.30						.72			.04				.72								1.10		
KONA (KAILUA) 68.3	A	2.08		.03						.04	.04			.38	.01	.02	.03		.08	1.22	T	.03					.06					.18		
KONA VILLAGE 93.8	A	.43																.30									.05							
KUKAIU 222	A	2.95				.12	.10	.09	.01	.05								.12	.12	.12		.04					.03	.05	1.78	.20		.12		
KUKUIHALE HIC 199	A	1.31				.03	.04			.05	.06	.06		.07				.05	.08									.02	.01	.82	.02			
KUKUIHALE MILL 206	A	1.32				.07	.07	.02	.02	.07				.16		.02			.07							.19	.02			.78	.01			
KULANI CAMP 79	A	4.48	.02		.30	.18	.18	.05		.04		.76	.07					.26	.48	.26	.30		.09	.06		.35	.35	.02	.19	.19	.76	.44	.05	
KULANI MAUKA 76	A	.87				.03	.09	.45											.15															
KULANI SCHOOL SITE 78	A	2.29			.17						.20							.47																
LANIKAU 68.2	A	13.74		.16	.51				.37	.07	.58	2.07	1.48	.14	.18	.12	.61	.67	4.66	.30				1.10		.35	.11					.63		
MAKAMALAU 103	A	.83							.37								.40	.22										.40			T	T		
MANUKA 2	A	.80																																
MAUNA LOA SLOPE D85	A	.55		.15			.20	.02			.15			1.86				.18				T												
MIDDLE HOLUALOA 68.1	A	6.00		.22						.15							.57			.77		1.25							.48			.70		
MIDDLE PEN 147.1	A	.00																																
MOAULA 18	A	1.75																														1.75		
MOUNTAIN VIEW 91	A	7.85	.15	.13		.27	.02	.01		.41	.62	.04	.32	.08	.02	.04	.21	.06	.30	.94	.91	.02	.37	.07	.20	.28	.41	.10	1.35	.50	1.02			
NAALEHU 14	A	1.86		.02						.30			.77							.13	T	.16	.17	.12			.19	T						
NAPDOPO 28	A	1.84				.32							.49						.18								.85							
NTULII 179	A	1.64					.26	.03	.07	.01	.15		.07	.05	.03					.46	.12			.10			.02	.06	.31	.01				
OKALA 223	A	3.00					.03			.13	.01						.02	.05	.15	.38	.48	T	.05		.01			.10	1.07	.43				
OPIHIMALE 2 24.1	A	1.92	.06	.01	.03	T				.11	.19	.50	T		.09	.03	.01	.11	.23	.08	.13	.02	.02	.24	T	.01	.01		.04	T				
ORCHID LAND EST 91.5	A	6.25		.67					.01	.10	.03	.01					.67			.01	.09			2.35					.07	.47		2.17		
PAUHAU 217	A	.96					.17		.01	.10	.03	.01																						
PAAULI 221	A	2.14				.01	.08	.04	.01	.03				.01	T			.08	.06	.03		.01				T	.03	1.47	.18	T	.11			
PAHALA 21	A	1.61		.02			.01				.01		.84	.01								.41		.44	.07									
PAHUA 65	A	7.57	.15	.08			.17			.14	.35	.35	.02	.18	.09	.08	.32	.09	.08	.44	1.38	.61	.05		.32	.22	.29	.44	.30	1.12	.15	.15		
PAKAD 37	A	2.45																														2.45		
PAPAIAKU 144.1	A	6.02	.08	.02	.03	T		.03		.27	.25	T	.08	.02	.07	.16	.05	.42	.33	.86	.54		.15	.06	.51	.14	.12	.18	1.04	.51	.10			
PAPAIAKU MAUKA 140.1	A	7.56	.13	.01	.22	.01		.08	.01		.45	.50	.06	.09	.04	.10	.04	.07	.34	.30	1.10	.35	.03	.37	.11	.47	.15	.21	.45	1.45	.21	.21		
PIIHOHUA 89	A	9.40																														9.40		
POHAKULUA 107	A	.12																																
PUAKO 95.1	A	.47			.07	T				.03	.01	.12	.09						.05				.01									.09		
PUU KIME 120	A	.53																														.53		
PUU LAU 102.1	A	.24																																
PUU LEHUA 73	A	.92																														.24		
PUU MALI 113	A	.81																														.92		
PUU OD 82	A																.02		.08	.41	.22	T	.06	.15	.12	.15	.01	.05	.02	.22	.01	T		
PUU WAHAA 94.1	A	1.68		.08			.24			.03		.41	.74						.18															
SADDLE ROAD 1 84	A	6.69		.44						.75							.60							1.30								3.60		
SOUTH POINT CORRAL 3	A	7.78				.10						.16							.30								.22							
UMIKOA 118	A	1.44			.16	.03	.14	.12	T	.04	.03	.03								.09			.03							.38	.27			
UPOLU POINT USCG 159.2	A	1.33								.09	.04	.55	.05	.07			.02	T	T	.10	T							.11	.30					
WAIKAE SCD 88.2	A	7.87	.15	.01	.16	.03			T		.60	.27	.23	.21	.02	T	.02	T	.51	1.30	.92		.37	.14	.52	.15	.20	.21	1.42	.36	.06			

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
							02	08	14	20									
HILD WSD 87 AP	9	0.3	6.1	17	E	03	90	81	67	85	4	9	12	2	0	0	27	39	8.4
HONOLULU WSD 703 AP	6	10.9	13.8	29	NE	27	74	67	54	68	13	6	2	0	0	0	21	66	7.3
KAHULUI WSD 398 AP	5	10.7	12.6	31	E	25	83	69	55	74	10	2	1	0	0	0	13	72	7.2
LIHUE WSD 1020.1 AP	5	8.1	10.0	26	NE	27	84	77	68	77	11	11	4	1	0	0	27	59	7.4

DAILY TEMPERATURES

HAWAII
JULY 1972

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF OAHU																																	
KANALOHULU 1975	MAX MIN	68 52	66 49	68 52	72 47	70 46	75 53	70 52	72 59	71 53	77 53	72 50	72 54	75 50	77 55	73 57	71 58	72 56	74 52	73 56	71 50	75 47	74 54	65 58	70 59	69 58	68 52	67 56	71 54	73 59	71.4 53.5		
KILA EA POINT 1933	MAX MIN	80 74	80 73	84 73	85 75	84 75	82 74	81 71	83 76	88 80	84 73	84 79	83 75	81 74	82 77	82 77	81 76	81 75	82 75	82 76	83 74	83 78	84 75	84 77	82 76	80 76	79 72	80 76	81 75	82 76	82.2 75.3		
LIHUE WSO 1926.4 AP	MAX MIN	82 72	81 70	84 68	80 70	82 67	82 71	83 73	84 72	85 72	83 71	83 69	84 70	73 73	74 74	74 74	73 73	75 75	73 73	75 75	73 70	70 70	69 69	74 74	74 74	72 72	72 74	82 72	73 73	84 74	83.1 72.0		
MAKAPUUNA POINT 940.1	MAX MIN	83 71	84 69	86 69	75 72	86 73	86 68	86 69	83 75	82 70	89 70	89 69	89 69	62 77	83 72	83 72	84 72	84 71	85 71	85 72	85 72	85 70	85 71	85 71	85 71	82 72	83 71	83 72	84 71	84 71	84.2 71.5		
MANA 1924	MAX MIN	84 65	88 65	86 68	83 69	85 65	87 65	87 66	87 66	88 69	87 66	89 66	85 66	89 70	89 68	91 68	90 67	88 68	89 67	89 66	89 66	85 68	87 66	89 66	87 71	86 67	88 67	90 64	88 65	90 67	87.7 67.1		
MAUI RIDGE 1935	MAX MIN	78 64	82 62	81 61	82 60	80 60	82 61	82 61	82 61	81 63	80 63	83 64	84 63	83 63	82 62	83 63	84 63	83 63	82 63	84 61	84 61	83 62	83 62	84 62	81 64	81 65	80 63	82 60	83 61	83 62	81.9 62.5		
MAIAMI LOWER 1054	MAX MIN	79 67	80 61	82 60	83 62	78 58	78 60	80 66	81 61	80 61	81 66	80 62	80 61	80 62	82 61	81 64	81 64	82 67	81 67	81 65	81 61	82 60	81 65	81 65	80 67	79 68	78 69	79 66	80 66	81 66	80.4 63.9		
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	84 69	85 65		84 64	85 64	87 69	87 69	88 71		88 66	88 68	85 68	85 69	86 69					87 69	86 68	85 66	88 67	88 67			87 70	82 72	85 70	83 68	86 67	85.9 68.0	
HONOLULU WSO 703 AP	MAX MIN	86 71	83 71	82 70	82 68	85 66	87 67	86 72	88 74	82 75	84 72	82 71	88 71	87 74	86 74	87 74	86 74	87 73	87 73	86 70	87 70	87 70	88 70	87 70	86 75	86 74	84 74	86 73	85 74	87 73	87 73	85.7 72.1	
HONOLULU SUBSTA 704	MAX MIN	82 72	82 72	81 71	81 70	82 70	82 70	83 72	81 73	80 73	80 73	83 72	83 71	81 71	82 72	80 73	81 74	80 72	82 72	81 73	80 72	80 70	81 74	80 74	82 74	81 72	80 72	81 72	82 73	82 73	82 73	81.2 72.0	
KAHUKU 912	MAX MIN	84 72	83 74	86 74	87 71	87 71	87 75	87 73	87 72	87 73	87 72	87 71	87 75	87 73	87 74	87 76	87 75	87 76	87 75	87 75	87 74	87 74	87 72	87 72	87 74	87 74	87 75	87 74	87 75	87 74	86.7 74.0		
KANEONE MAUKA 781	MAX MIN	80 68	81 69	81 72	80 69	79 69	81 66	82 70	82 71	84 71	78 71	82 72	84 70	84 71	83 72	82 74	83 73	82 73	83 73	81 69	82 69	82 69	83 69	84 69	82 69	80 72	80 73	79 74	82 70	81 72	83 72	81.7 70.9	
LUALUALEI 804	MAX MIN	84 73	84 71	85 71	83 70	85 65	85 69	84 73	85 73	85 73	85 65	86 67	86 67	84 70	86 71	86 74	87 71	86 71	87 72	88 71	89 67	88 70	88 63	89 66	87 73	85 71	87 70	87 70	85 73	86 71	88 68	85.7 70.0	
MAKAPUU POINT 724	MAX MIN	77 60	78 70	73 68	74 63	73 61	78 68	80 67	74 65	81 65	80 69	84 72	85 70	81 70	82 69	82 70	80 68	79 68	80 71	80 70	75 70	80 70	81 70	76 70	75 73	76 73	76 72	78 69	76 69	76 73	79 72	78.2 69.5	
UPAULA 870	MAX MIN	80 62	80 59	80 60	80 63	80 58	80 59	80 62	80 59	80 59	80 61	83 63	80 59	81 63	81 62	76 63	79 61	80 65	80 60	79 61	75 60	75 60	78 64	79 62	82 65	78 63	79 65	72 65	74 63	75 60	76 58	78.7 61.9	
PRI WAHIAWA 820.2	MAX MIN	82 65	84 62	82 63	80 63	83 62	84 61	84 64	84 67	86 68	80 65	86 66	86 63	87 65	82 68	83 65	84 65	82 67	83 64	83 65	83 64	85 65	85 64	84 67	85 64	85 67	80 69	85 67	81 68	81 68	82 65	84 62	83.2 65.0
WAIALEE 696.3	MAX MIN	83 70	83 68	82 68	81 61	83 70	82 69	84 69	84 69	85 69	83 69	86 69	85 69	86 71	84 71	84 71	83 72	84 71	85 70	83 70	83 70	85 69	85 69	84 69	84 69	82 68	80 68	84 71	83 66	85 71	83.7 69.6		
WAIALUA 647	MAX MIN	85 66	86 63	83 63	82 64	79 62	81 60	86 67	85 66	88 68	82 68	81 64	83 66	89 64	85 68	85 62	86 64	83 64	84 66	83 66	86 64	85 62	87 66	87 63	84 63	81 64	83 68	83 69	83 62	85 61	84.1 64.4		
WAIKIKI 717.2	MAX MIN	84 70	83 73	83 66	84 67	84 66	87 66	85 67	85 72	85 72	83 71	86 71	85 68	86 71	85 72	86 72	85 71	86 72	85 70	86 72	85 69	86 67	85 66	86 67	85 72	85 72	84 73	82 72	83 70	84 71	85 73	84.8 70.3	
WAIMANALO EXP FARM	MAX MIN	82 70	82 71	82 70	82 66	76 65	79 66	83 70	82 71	83 71	83 69	84 68	85 70	84 72	83 71	83 72	84 71	83 72	84 72	83 72	83 69	84 70	83 69	84 70	83 69	83 70	83 71	81 71	83 72	83 73	85 73	82.7 70.4	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	80 70	81 65	80 69	77 70	77 68	79 66	82 66	78 70	83 72	82 70	80 68	81 68	85 68	83 70	82 70	82 69	80 74	81 74	83 69	81 68	81 68	81 68	81 67	79 67	80 69	78 74	80 69	81 69	80 71	81 70	80.6 69.4	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN																																
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	67 45	61 40	59 48	56 48	60 49	67 47	68 49	70 50	69 46	71 46	67 46	59 46	73 50	71 49	70 47	65 48	67 48	64 41	63 41	62 45	62 42	63 40	58 42	62 45	67 49	74 57	71 49	64 43	69 41	63 41	65.4 45.9	
HALEAKALA SUMMIT 338.4	MAX MIN	57 43	55 34	59 38	52 40	58 44	58 40	62 45	63 47	64 46	65 47	60 45	65 43	66 46	66 41	63 35	54 40	58 40	58 39	56 40	54 37	53 40	50 42	58 48	55 43	60 36	51 43	56 40	55 39	55 39	58.8 41.7		
MANA AIRPORT 355	MAX MIN	84 67	84 65	82 65	84 65	83 67	82 63	83 66	83 66	84 66	83 70	83 67	84 66	84 69	85 69	84 67	85 69	82 68	84 68	84 65	85 66	85 66	83 65	83 66	83 67	83 66	83 67	83 66	83 66	84 66	84 68	83.5 66.4	
KAANAPALI AIRPORT	MAX MIN	85 67	83 68	81 70	79 69	82 71	84 66	84 68	85 69	85 70	84 70	85 70	84 70	88 69	85 68	84 70	85 67	84 71	85 71	83 68	86 67	84 68	85 67	83 67	84 67	84 68	85 71	82 66	84 66	85 67	83.8 68.8		
KAHULUI WSO 398 AP	MAX MIN	86 65	84 60	81 65	80 65	83 65	82 64	83 66	87 65	88 66	88 67	87 65	87 65	86 68	86 67	87 67	88 67	85 66	86 66	86 66	88 66	86 66	88 66	86 66	88 66	87 66	84 66	84 66	87 66	87 63	85.7 65.7		
KAILUA 446	MAX MIN	76 66	76 65	76 65	77 65	77 65	76 64</																										

See Reference Notes Following Station Index

DAILY TEMPERATURES

Continued

HAWAII
JUNE 1972

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX MIN	73 58	70 58	73 59	68 59	73 58	74 59	75 55	72 56	71 59	72 60	71 60	70 59	74 60	72 59	73 57	74 58	73 59	73 60	73 58	72 57	70 58	72 59	69 57	70 58	70 57	72 58	71 58	74 59	74 57	71 58	72.0 58.2	
LAHAINA 361	MAX MIN	84 69	83 67	81 68	83 66	89 67	85 65	85 67	85 67	84 68	86 67	89 65	86 67	86 68	87 67	86 68	88 68	87 68	87 68	86 66	85 67	84 65	86 68	86 66	86 67	88 66	86 67	87 66	86 66	85 66	85 66	85.7 67.0	
WAILUKU 386	MAX MIN	82 69	82 69			81 67	79 69	79 69	80 71				85 68	85 70	83 70	82 71	82 71				82 69	83 70	81 69	81 68	82 70		83 70	80 70	81 70	81 71	81 70	81.5 69.5	
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX MIN	80 68	81 64	78 65	80 65	80 67	76 66	77 65	82 65	81 67	80 67	80 66	84 65	82 70	80 68	82 68	83 67	82 67	81 67	81 66	82 66	83 65	83 65	84 66	83 68	82 68	80 67	80 67	78 66	80 64	75 69	80.7 66.6	
HAWAII VOLCNS NP HQ 54	MAX MIN	66 53		67 49	68 56	70 54	72 56		79 55	71 56	71 58	71 56	67 56	72 55	69 55	71 55	67 54	66 54	67 55	69 51	68 50	70 55	68 54	68 55	65 53	70 55	68 55	66 55	66 55	68 55	68 52	69 52	69.1 53.6
HILO WSD 87 AP	MAX MIN	81 67	82 63	87 65	82 68	80 69	82 68	82 68	84 69	83 70	84 71	85 70	85 67	84 70	84 69	84 68	85 67	85 68	82 66	82 68	83 65	83 65	84 65	83 69	83 69	82 65	82 68	81 69	82 69	83 68	81 66	83.0 67.6	
KAINALIU 73.2	MAX MIN	75 63	75 61	76 62	76 63	78 62	79 62	79 62	78 66	76 66	77 66	75 65	77 65	72 65	74 65	80 65	77 68	76 63	76 63	75 65	74 62	75 60	74 60	77 63	76 63	76 65	76 66	77 65	75 63	78 61	78 61	76.3 63.4	
KAMUELA 192.2	MAX MIN	70 65	72 55	72 56	74 56	80 57	76 56	75 55	76 57	73 58	74 58	76 60	79 56	72 58	69 57	71 55	72 58	73 57	74 58	73 58	73 57	74 52	76 54	74 58	72 57	70 59	68 58	70 58	73 57	73.1 57.0			
KEAAU 92	MAX MIN	80 65	79 63	79 63	85 64	83 67	80 67	79 67	83 66	81 68	81 68	79 63	82 63	82 66	82 67	83 65	82 65	83 66	81 67	80 64	81 64	81 63	81 63	80 67	80 66	80 66	80 66	82 65	82 65	81.0 65.4			
KEALAKEUA 26.2	MAX MIN	75 62	77 61	76 60	76 61	78 62	80 62	79 63	77 63	77 66	76 66	76 67	74 65	73 66	76 65	79 65	78 62	77 63	77 63	76 65	76 61	77 60	78 60	75 60	75 63	78 64	74 65	78 65	75 63	79 62	78 62	76.7 63.1	
KOHALA MISSION 175.1	MAX MIN	79 68	80 65	80 67	82 66	84 67	76 66	78 66	82 66	82 67	80 69	82 69	84 67	81 68	80 69	81 66	82 69	81 66	81 66	80 67	81 66	82 66	82 66	82 66	81 67	78 68	78 67	76 67	80 67	82 65	80.6 67.2		
KONA (KAILUA) 68.3	MAX MIN	81 72	84 68			85 71	88 71	87 71	87 71					84 72	80 73	84 70	84 72				85 70	85 66	83 67	85 68			83 70	85 72	81 71	85 70	85 66	84.2 70.1	
KULANI CAMP 79	MAX MIN	61 50	61 49	62 42	65 51	65 49	65 49	68 50	68 46	68 52	65 52	67 48	67 49	70 45	70 45	70 59	66 50	66 51	65 51	64 49	62 45	61 45	63 51	63 51	61 43	66 48	66 48	59 49	59 49	52 44	64.5 48.3		
MAUNA LOA SLOPE 085	MAX MIN	55 43	52 37	56 36	55 38	56 38	55 40	53 39	55 38	55 37	56 38	56 40	63 39	60 42	59 40	58 40	54 38	54 36	52 35	53 34	50 32	51 34	60 34	60 39	64 43	66 46	61 47	61 42	54 40	52 37	51 37	55.9 38.6	
MOUNTAIN VIEW 91	MAX MIN	76 55	72 55	77 57	77 57	76 57		75 61	80 62	74 63	76 63	76 59	76 59	78 59	76 62	76 61	77 60	78 60	78 60	78 60	72 59	77 57	78 57	78 58	76 58	76 58	76 62	73 64	70 64	74 60	76 59	76.0 59.1	
NAALEHU 14	MAX MIN	78 68	77 63	77 63	81 64	81 64	81 67	82 83	83 67	79 68	79 68	79 66	79 66	77 67	79 67	80 67	80 68	79 66	79 66	80 66	80 67	80 65	80 67	79 67	78 67	78 67	78 69	79 69	79 67	79 67	79.3 66.4		
OOKALA 223	MAX MIN	80 62	78 66	83 65	84 65	87 65	77 67	82 68	81 67	79 67	81 68	82 68	81 69	81 69	82 69	82 66	82 66	82 66	80 67	80 65	81 67	81 65	80 65	81 65	80 66	80 67	81 67	76 66	80 66	81 66	80.7 66.7		
OPIHIHALE 2 24.1	MAX MIN	77 64	72 62	76 61	79 62	80 65	76 66	76 66	74 62	74 64	75 66	76 66	73 62	78 64	81 65						79 61	72 60	76 62	77 62	75 61	75 63	79 65	75 66	78 61	74 60	75 62	76.1 63.1	
PAHALA 21	MAX MIN	80 64	78 61			81 62	81 68	83 63	83 64	79 67				78 62	78 64	81 63	81 63				80 63	79 63	79 59	78 60			78 64	79 67	79 64	79 65	79.8 63.3		
PUAKO 95.1	MAX MIN	86 70	82 67	84 68	83 70	79 69	89 69	88 90	88 94	85 70	85 73	85 66	84 66	86 69	89 73	89 73	87 72	86 71	83 71	85 72	86 71	86 69	85 70	85 74	84 70	84 74	87 73	87 73	86 73	86 68	85.6 70.8		
UPOLI POINT USCG 159.2	MAX MIN	83 69	84 69	84 72	84 71	84 70	83 69	84 69	84 69	86 69	83 69	86 69	85 69	84 67	83 70	83 69	84 69	83 71	83 69	83 68	84 66	84 70	83 71	85 69	86 72	84 71	82 74	84 63	80 65	83 71	83.7 69.5		

EVAPORATION AND WIND

Station		Day of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WSD 1020.1 AP	EVAP WIND MAX MIN	.21 178 75 61	.35 102 83 61	.22 58 80 59	.20 56 77 58	.30 98 80 57	.12 78 80 58	.39 131 86 60	.14 96 83 61	.17 93 83 62	.26 64 86 62	.12 52 80 59	.26 67 83 60	.27 78 85 60	.28 113 86 63	.36 158 85 62	.34 164 84 62	.28 166 80 62	.39 207 83 62	.34 223 82 63	.41 191 83 69	.40 117 83 60	.39 93 84 59	.34 120 85 60	.35 178 84 68	.32 209 81 62	.23 235 76 62	.29 261 77 62	.32 264 80 61	.45 215 87 61	.29 176 82 62	8.79 424.1 81.0 61.3	
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP WIND MAX MIN	.32 43 89 66	.30 27 88 65	.21 63 87 66	.20 40 88 64	.21 28 90 63	.30 27 87 63	.20 29 90 66	.33 24 94 68	.30 34 87 70	.29 32 90 67	.21 27 86 67	.30 27 95 68	.15 23 97 68	.28 34 81 67	.30 40 93 66	.19 41 86 66	.30 44 92 66	.33 40 92 66	.36 40 92 66	.34 28 87 65	.27 30 85 65	.28 37 89 65	.28 37 89 67	.30 56 85 66	.42 50 89 66	.30 50 83 65	.42 56 89 64	.40 56 87 65	.30 34 89 65	8.688 1118 89.6 66.0		

See Reference Notes Following Station Index

LATE REPORTS

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII

Station		Temperature										Precipitation												
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
											Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											30° or Above	31° or Below	32° or Below	0° or Below										
* * * JULY 1971 WAIALEE 896.3		83.3	71.3	77.3		85	27+	67	26		0	0	0	1.19		.53	10	.0	0		2	1	0	
* * * AUGUST 1971 WAIALEE 896.3		84.2M	71.3M	77.8M		86	11+	67	21+		0	0	0	1.70		.49	14	.0	0		5	0	0	
* * * SEPTEMBER 1971 HANA AIRPORT 355 WAIALEE 896.3		84.7 84.7	65.6 71.5	75.2 78.1		87	1 17	60 68	27 25+		0 0	0 0	0 0	5.54 1.27		.84 .31	24 24	.0 .0	0 0		14 4	3 0	0 0	
* * * OCTOBER 1971 WAIALEE 896.3		83.2M	69.7M	76.5M		85	30+	63	29		0	0	0	1.87		.67	30	.0	0		5	1	0	
* * * NOVEMBER 1971 WAIALEE 896.3		79.8	66.8	73.3		84	6	60	23		0	0	0	3.95		.78	16+	.0	0		10	2	0	

See Reference Notes Following Station Index

HAWAII

DAILY TEMPERATURES

See reference notes following Station Index

STATION INDEX

										HAWAII JUNE 1972																									
STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES			OBSERVER												
								TEMP	PRECIP	EVAP										SPECIAL										TEMP	PRECIP	EVAP	SPECIAL		
ISLAND OF MOLOKAI																																			
PUUOHUKU RANCH 542.1	8549.01	MOLOKAI				1 21 09	156 44	700	0A			PUUOHUKU RANCH					1 21 09	156 44	700	0A															
MAIKULU 540	9404.01	MOLOKAI				1 21 08	156 55	3550	0A			ISLAND OF LANAI					1 21 08	156 55	3550	0A															
ISLAND OF LANAI												KANEIUA 490	A 3130.01	LANAI			1 20 52	157 00	1650	0A															
												KAUHAU HARBOR 658	A 3461.01	LANAI			1 20 47	157 00	30	0A															
												LANAI CITY 672	A 5286.01	LANAI			1 20 50	156 55	1620	7A															
												LANAIHOLE 684	A 5301.01	LANAI			1 20 49	156 53	1370	0A															
												HALEKALAKA SUMMIT 338.4	A 5704.01	LANAI			1 20 52	156 55	1400	0A															
												MALEA 676	A 6012.01	LANAI			1 20 46	156 55	1150	0A															
												MALEA 676	A 6021.01	LANAI			1 20 47	156 52	2040	0A															
ISLAND OF MAUI												MAUI 252	A 0175.02	MAUI			2 20 37	156 20	2040	0A															
												FIELD 46 474	A 0541.04	MAUI			2 20 39	156 38	1050	0A															
												MALEA 479	A 0790.04	MAUI			2 20 39	156 38	2980	0A															
												MALEA 480	A 0882.04	MAUI			2 20 31	156 18	2100	7A															
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												MALEA 480	A 0882.04	MAUI			2 20 31	156 18	2100	7A															
												MALEA 480	A 0882.04	MAUI																					

STATION INDEX

HAWAII
JUNE 1972

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL	
ISLAND OF HAWAII												
MOAULA 18	A 6407	03 KAU		3 19 11	155 30	600		MO				
MOUNTAIN VIEW 91	A 6552	02 PUNA		2 19 33	155 07	1330	6A	6A				
HALEHOU 14	A 6908	03 KAU		3 19 04	155 35	673	8A	8A				
NAPODOPO 28	A 6697	04 S KONA		4 19 28	155 59	395	7A	7A				
NIULII 179	A 6858	01 N KOHALA		1 20 14	155 45	75	6A	6A				
ODUALA 229	7131	02 N HILO		2 20 01	155 17	430	7A	7A				
OPIMIHOLE 2 24.1	7166	04 S KONA		4 19 16	155 53	1270	7A	7A				
OPCHIO LAND EST 91.5	A 7185	02 PUNA		2 19 34	155 00	445	VAR	VAR				
PAUMAU 217	7204	01 HAWAII		1 20 09	155 26	415	7A	7A				
PAUULO 221	7312	01 HAWAII		1 20 03	155 22	800	7A	7A				
PAMALA 21	A 7471	03 KAU		3 19 12	155 29	870	8A	6A				
PAMOA 65	7457	02 PUNA		2 19 30	154 57	670	6A	6A				
PAPAKU 37	A 7648	03 KAU		3 19 23	155 28	5000	MO	MO				
PAPAIKOU 144.1	7711	02 S HILO		2 19 47	155 06	200	7A	7A				
PAPAIKOU MAUKA 140.1	7721	02 S HILO		2 19 47	155 08	1270	7A	7A				
PIIMONUA 89	A 8091	02 S HILO		2 19 44	155 10	1790	VAR	VAR				
POMAKULUA 107	A 8063	02 HAWAII		2 19 49	155 32	6511	VAR	VAR				
PUNAKU 95.1	A 8186	03 KOHALA		4 19 50	155 50	5	8A	8A				
PUU KIME 120	A 8393	01 HAWAII		1 19 54	155 24	7750	MO	MO				
PUU LEAU 102.1	A 8432	05 HAWAII		5 19 50	155 36	7450	MO	MO				
PUU LEHUA 73	A 8400	04 N KONA		4 19 34	155 49	4680	MO	MO				
PUU MALL 113	A 8519	01 HAWAII		1 19 55	155 26	6980	MO	MO				
PUU OD 82	A 8550	02 S HILO		2 19 44	155 23	6340	MO	MO				
PUU WAHAA 94.1	A 8555	05 N KONA		5 19 47	155 51	2920	7A	7A				
SADDLE ROAD 1 84	A 8560	02 S HILO		2 19 42	155 12	2340	WM	WM				
SOUTH POINT CORRAL 3	A 8675	03 KAU		3 18 57	155 41	500	WI	WI				
UMUKOA 118	8780	01 HAWAII		1 19 59	155 23	3420	7A	7A				
UPULU POINT USSC 159.2	8830	01 N KOHALA		1 20 15	155 53	61	8A	8A				
WAIKAEKA SCD 88.2	9045	02 S HILO		2 19 40	155 08	1050	7A	7A				
WAIKANDOLUA 178.6	9350	01 N KOHALA		1 20 08	155 47	3850	7A	7A				
NEW STATIONS												
ISLAND OF OAHU												
HAWAIIAN AGR CO												
PUNA SUGAR CO												
HAWAIIAN RANCH CO. INC.												
MAUNA KEA SUGAR CO.												
MAUNA KEA SUGAR CO.												
STATE DIV OF FORESTRY												
STATE DIVISION OF PARKS												
EPWIN M. RAPP												
KUKAIAU RANCH CO												
STATE DIV OF FISH-GAME												
MOHILANI 835.1	6547	03 OAHU		3 21 25	147 36	325						
PUNAHULU PUMP 805.2	8314	01 MOLOKAI		1 21 35	157 34	20						

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index". Indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- J "Supplemental Data" table.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

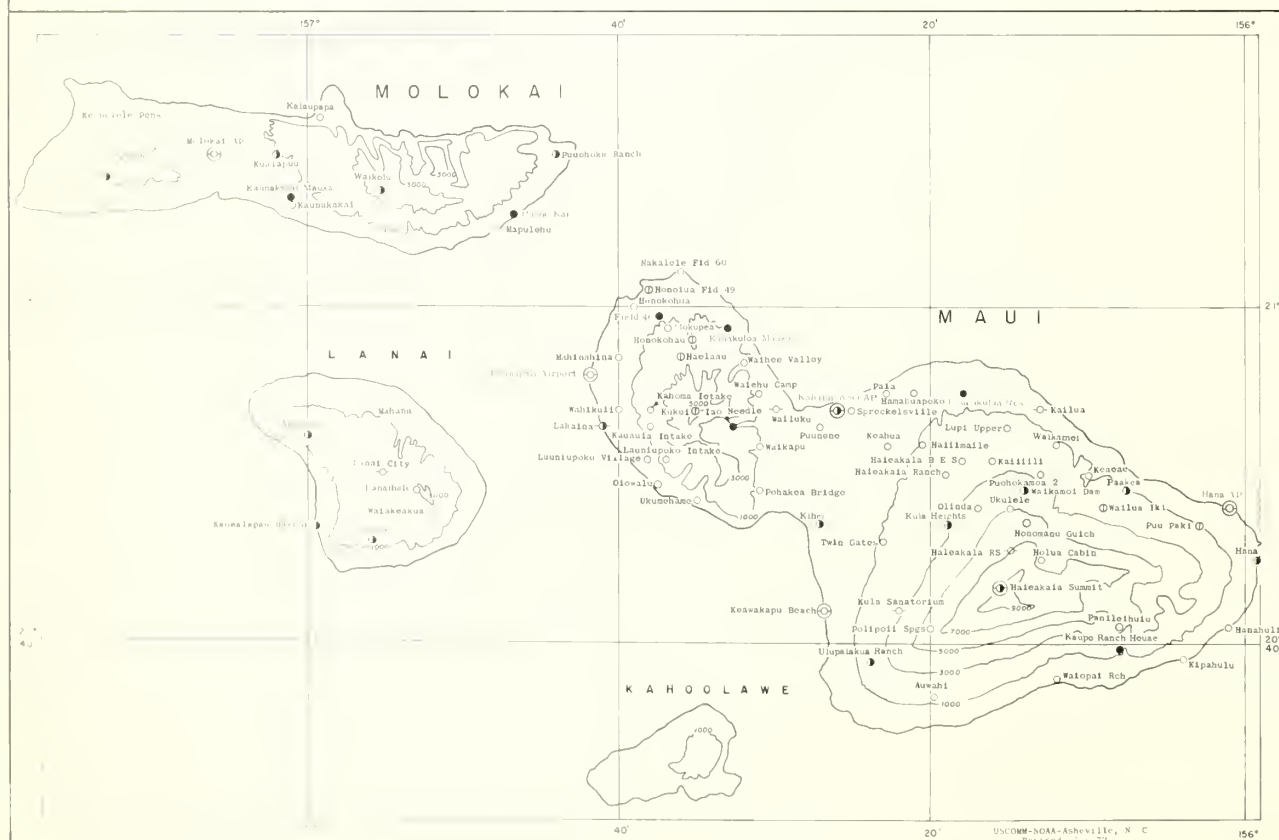
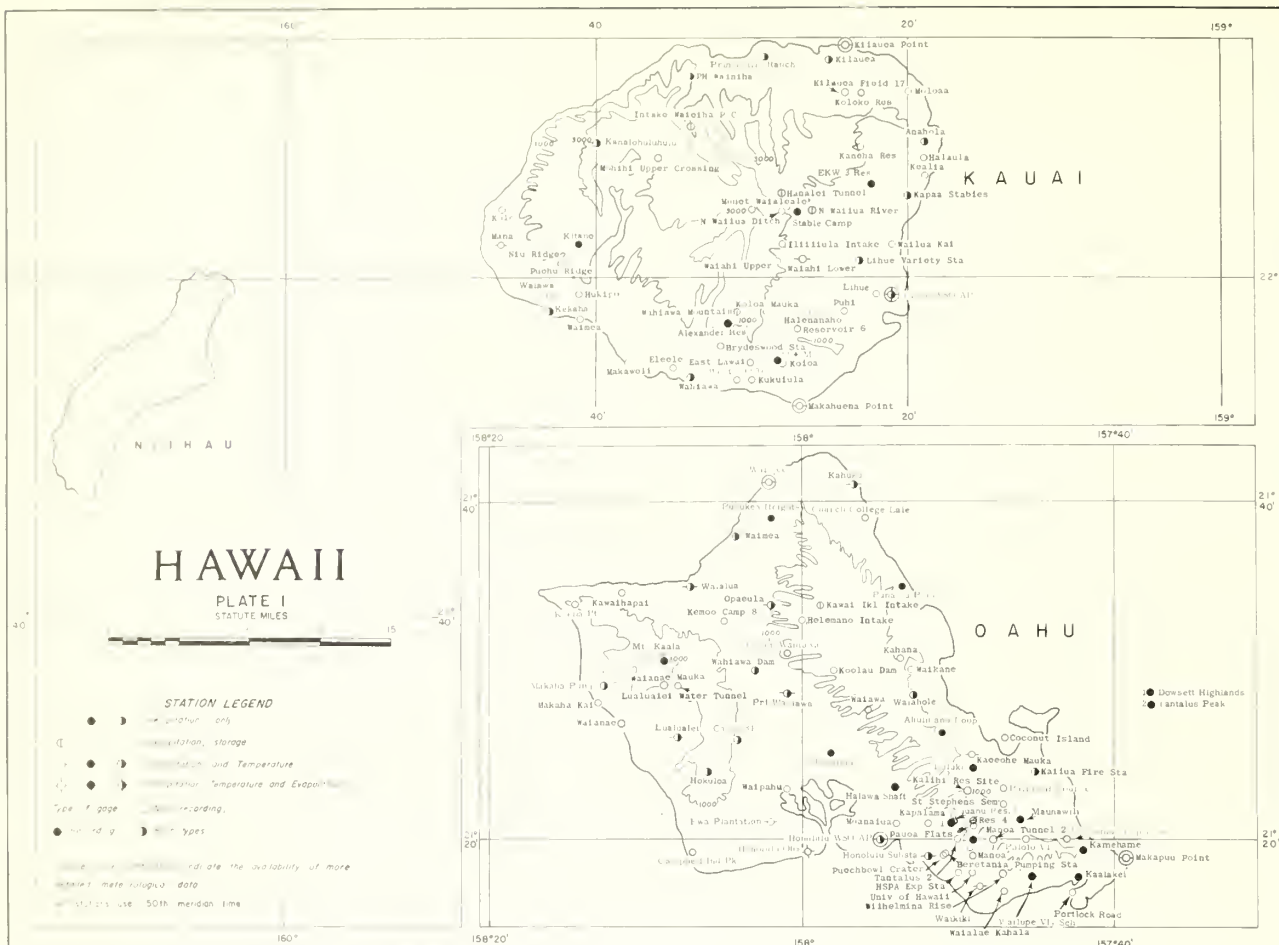
Information concerning the history of changes in locations, elevations, exposure, etc., of stations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

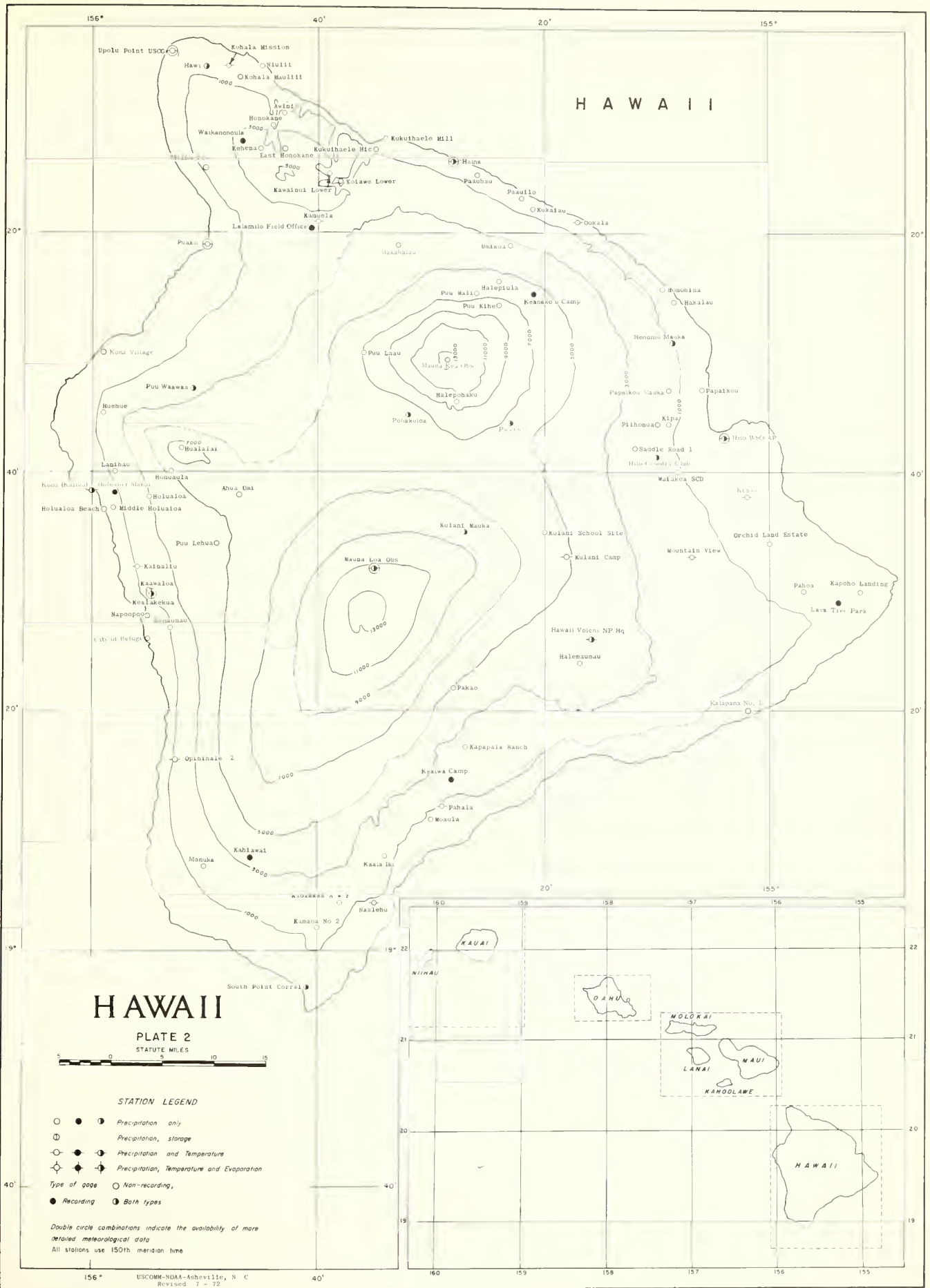
Subscription Price: \$2.50 a year for each section including annual summary, \$1.00 additional for foreign mailing, 20¢ single copy, 20¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center

USCOMM-NOAA-ASHEVILLE, N. C. 9/28/72-890





HAWAII

PLATE 2
STATUTE MILES



STATION LEGEND

- ● ○ Precipitation only
- ○ Precipitation, storage
- ● ○ Precipitation and Temperature
- ● ○ Precipitation, Temperature and Evaporation
- Type of gauge ○ Non-recording,
- Recording ○ Both types

Double circle combinations indicate the availability of more detailed meteorological data
All stations use 150th meridian time

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CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII

JULY 1972

Volume 68 No. 7

NOV 20 1972

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature												Precipitation														
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max. Min.								Total	Max. Depth on Ground	Date	10 or More	50 or More	100 or More				
										32° or Above	32° or Below	32° or Below	32° or Below														
ISLAND OF KAUAI																											
ANAMOLA 1114	A													3.35	.96												
KANALOHULUHULU 1075		71.5	56.0	63.8		76	24+	49	22	0	0	0	0	2.23		.55	15	.0	0		8	1	0				
KAPAA STABLES 1104	A													3.67				.0	0								
KILAUEA FIELO 17 1135	A													9.38	2.67			.0	0								
KILAUEA POINT 1133		80.7	75.2	78.0		84	27	72	23+	0	0	0	0	6.33		2.00	24	.0	0		14	3	2				
KOLOA 936	A													3.83	- 1.23			.0	0								
LIHUE WSO 1020.1 AP	//R	82.9	73.8	78.4	.8	84	30+	69	15	0	0	0	0	2.25	.31	.78	15	.0	0		4	2	0				
MANA 1026		87.6	67.9	77.8	.1	91	7	64	27	3	0	0	0	1.35	.79	1.18	11	.0	0		1	1	1				
N WAILUA DITCH 1051	A													16.54				.0	0								
PH WAINIHA 1115														8.66	- 1.42	2.25	15	.0	0		17	6	2				
PUEHU RIDGE 1040														1.26		.75	11	.0	0		3	1	0				
WAIHAWA 930	A													.74	-.95			.0	0								
WAIHAI LOWER 1054		80.4	66.2	73.3		83	31	60	19	0	0	0	0	9.88		2.82	15	.0	0		21	9	1				
WAIWEE 947														.08	-.39	.08	11	.0	0		0	0	0				
ISLAND																											
ISLAND OF OAHU																											
HONOLULU OBSERV 702.2														.17		.08	8	.0	0		0	0	0				
HONOLULU WSO 703 AP	R	87.0	73.8	80.4	1.6	89	22+	71	31+	0	0	0	0	.20	-.24	.07	13	.0	0		0	0	0				
KAHUKU 912	A	87.1	76.0	81.6	3.9	89	17+	73	4+	0	0	0	0	.84	- 1.05	.30	8	.0	0		3	0	0				
KANEHE MAUKA 781		82.3M	72.4M	77.4M	.9	85	27	68	6	0	0	0	0	3.53	-.78	1.74	17	.0	0		8	1	1				
KOOLAU DAM 833	A													7.77	- 2.01	1.63	15	.0	0		11	8	1				
LUALUALEI 804	A	88.6M	71.7M	80.2M		92	26	65	5	8	0	0	0	.29				.0	0								
MAKAPUU POINT 724		78.7M	70.0M	74.4M		82	24	65	21	0	0	0	0	.16	-.68	.16	25	.0	0		1	0	0				
NUUANU RES 4 783														5.74	- 2.93	1.26	15	.0	0		13	5	2				
OPAEULA 870	A	77.5	65.1	71.3	.9	85	4	60	30+	0	0	0	0	1.29	- 2.01	.80	16	.0	0		1	0	0				
PALOLO VALLEY 718	R													6.44	- 4.37	.90	15	.0	0		19	3	0				
PRI WAIHAWA 820.2	A	83.7	66.7	75.2		87	3	61	3	0	0	0	0	.71				.0	0								
WAIHAWA DAM 863	A													.64				.0	0								
WAIHOLE 837	A													4.41	- 6.53			.0	0								
WAIKALEE 896.3		84.5	72.0	78.3		87	18	70	31+	0	0	0	0	1.18				.0	0		5	0	0				
WAILUA 847	A	85.0	65.7	75.4	.8	89	11	61	2+	0	0	0	0	.27	-.47	.19	16	.0	0		1	0	0				
WAIKIKI 717.2		85.5M	72.1M	78.8M		87	27+	68	20	0	0	0	0	.27		.16	9	.0	0		1	0	0				
WAIMANALO EXP FARM		84.1	72.7	78.4		86	23+	70	25+	0	0	0	0	.58		.24	21	.0	0		2	0	0				
WAIKAPU 750	A													.32	-.35			.0	0		0	0	0				
ISLAND																											
ISLAND OF MOLOKAI																											
KUALAPUU 534	A													.39	-.49	.31	14	.0	0		1	0	0				
MAPULEHU 542														1.35	- 1.59	.39	1	.0	0		6	0	0				
MAUNALO 511	A													.02	- 1.24	.02	14	.0	0		0	0	0				
MOLOKAI AP 524		82.5M	71.5M	77.0M		86	4	68	31	0	0	0	0	.17		.12	14	.0	0		1	0	0				
ISLAND																											
ISLAND OF LANAI																											
LANAI CITY 672	A	77.5M	65.0M	71.3M	.2	81	12	62	26+	0	0	0	0	.24	- 1.48			.0	0								
ISLAND																											
ISLAND OF MAUI																											
HALEAKALA 8 E S 434	A	65.9	47.1	56.5		75	13+	37	31	0	0	0	0	1.54	- 2.59	.88	14	.0	0		3	1	0				
HALEAKALA RS 338		83.7	66.9	75.3		86	31+	63	14+	0	0	0	0	.56		.25	14	.0	0		3	0	0				
HANA AIRPORT 355														3.21	- 2.93	.56	16	.0	0		9	1	0				
HONOKOHU 493	A	84.5	69.5	77.0		87	27+	66	28+	0	0	0	0	1.06	- 1.32			.0	0								
KANAPALI AIRPORT														.11		.10	14	.0	0		1	0	0				
KAHULUI WSO 398 AP	R	86.7	69.1	77.9	.4	89	22+	60	22	0	0	0	0	.04	-.39	.03	13	.0	0		0	0	0				
KAILUA 446		77.5	66.5	72.0	.7	80	23+	64	31	0	0	0	0	8.31	- 1.84	2.49	16	.0	0		16	4	2				
KEANAE 346	A													17.50	- 2.37			.0	0								
KIPAHULU 258														4.51	- 5.02	.67	14	.0	0		16	3	0				
KULA SANATORIUM 267		73.0	59.6	66.3	.3	75	30+	56	31	0	0	0	0	.47	- 1.59	.24	31	.0	0		2	0	0				
LAHAINA 361		87.5	67.2	77.4		89	30+	65	30+	0	0	0	0	.00	-.11	.00		.0	0		0	0	0				
PAIA 406														.41	- 1.48	.09	14+	.0	0		0	0	0				
WAILUKU 386	A					84	24+	69	31+	0	0	0	0	.01	-.70			.0	0		0	0	0				
ISLAND																											
ISLAND OF HAWAII																											
HAINA 214		80.8	67.9	74.4		84	26	64	30	0	0	0	0	6.51	3.05	2.41	26	.0	0		9	5	1				
HAWAII VOLCNS NP HO 54		68.6	54.5	61.6	1.3	73	24	49	26	0	0	0	0	5.59	.47	1.04	26	.0	0		14	5	1				
HILO WSO 87 AP	R	82.0	68.8	75.4	.5	84	31+	64	30	0	0	0	0	9.07	-.75	1.39	27	.0	0		20	7	2				
HUEHUE 92.1														1.13	- 1.37	.82	9	.0	0								
KAINALIU 73.2	A	78.0	65.0	71.5		81	27+	60	31	0	0	0	0	11.27	2.72	3.44	9	.0	0		10	3	3				

See Reference Notes

CLIMATOLOGICAL DATA

HAWAII

JULY

1972

Continued

Continued

Station	Temperature										Precipitation																
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max.		Min.						Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										30° or Above	32° or Below	31° or Below	30° or Below														
KEAAU 92	80.3	67.2	73.8	- .6	82	26+	65	31+		0	0	0	0	10.68	.54	1.60	26	.0	0		17	7	4				
KEALAKEUA 26.2	77.8	65.3	71.6		81	27	61	31		0	0	0	0	8.20		2.62	9	.0	0		10	4	3				
KONA (KAILUA) 68.3					89	7	69	17		0	0	0	0	4.82		.0		.0	0								
KUKIHAELE HIC 199														6.88	1.34	2.12	26	.0	0		12	6	1				
KULANI CAMP 79	63.6M	49.7M	56.7M		72	24	42	22		0	0	0	0	6.15		.98	27	.0	0		12	5	0				
PAHALA 21		M	M	M	84	18+	61	19		0	0	0	0	.48		.30	27	.0	0		1	0	0				
POMAKULOA 107														.00		.00		.0	0		0	0	0				
PUKO 95.1														.01		.01	19	.0	0		0	0	0				
PUU WAAWAA 94.1	86.6	73.5	80.1		89	30+	70	31		0	0	0	0	.57	1.53	.20	1	.0	0								
UMIKOA 118														1.89	1.10	.47	14	.0	0		6	0	0				
WAIKOA SCO 88.2														15.71		2.41	26	.0	0		20	11	6				
ISLAND			70.6											5.56				.0									

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 93° ON THE 25+ AT KEAWAKAPU BEACH 260.2, MAUI

LOWEST TEMPERATURE: 34° ON THE 21+ AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 20.80 INCHES AT PUOHOKAMOA 2 343, MAUI

LEAST TOTAL PRECIPITATION: .00 INCH AT 18 STATIONS

GREATEST ONE-DAY PRECIPITATION: 7.09 INCHES ON THE 10TH AT MOUNT WAIKALEALE 1047, KAUAI

SPECIAL WEATHER SUMMARY

It was a mild July, highlighted only by continued dry weather over much of the State and by an unseasonable fall of snow on the twin peaks of Mauna Loa and Mauna Kea.

There were also two drownings caused by high waves. Both occurred on Hawaii Island. In the first of these, on the 4th, a 17-year-old boy, climbing a large rock in Hilo to pick opihi, a shellfish, was swept into the water by waves unexpectedly larger than the preceding ones. Two days later, on the 6th, a couple, spin-fishing from the rocks along the shore at Opihikao, were washed into the ocean. The woman drowned. Her husband was rescued 150 yards offshore with facial injuries and in shock.

Between the evening of the 14th and the early morning of the 15th, heavy rain, associated with an upper-level trough of low pressure, fell in the Princeville area of north Kauai, but appears to have done no damage. During the 5 hours between 9:15 p.m. and 2:15 a.m., the gage at Princeville Ranch registered 6.3 inches of rain, of which

3 inches fell in a single hour, 11:30 p.m. to 12:30 a.m.

On the afternoon of the 18th, Mauna Loa Observatory, at an elevation of 11,000 feet, reported 1/2 inch of snow, accompanied by hail and rain - its first snowfall in July since the Observatory opened 15 years ago. Twenty-four hours later, snow also fell at Mauna Kea Observatory, at the summit of Mauna Kea.

Rainfall exceeded its July normal only in eastern and northeastern Kauai, from Lihue to Princeville, and in extreme western Kauai; at a few gages in the Honolulu and Kaneohe areas; and in most of Hamakua, Hilo, and North Kona Districts of Hawaii Island. Nearly everywhere else amounts were less than half the July average, with all of Lanai, western Molokai, Maui's Central valley and western Kohala, on Hawaii Island, reporting little or no rain.

Several stations with long periods of record had less rain than in any previous July.

Stations With Less Rain in July 1972
than in Any Previous July

(25 years of record or more, only)

Station	Length of Period (Years)	Previous Greatest July Total (Inches)	July 1972 (Inches)
<u>OAHU</u>			
Waianae Mauka	68	1.04	0.64
<u>MOLOKAI</u>			
Maunaloa	49	0.04	0.02
<u>MAUI</u>			
Waiehu Camp	63	0.05	0.03
Wailuku	71	0.02	0.01
<u>HAWAII</u>			
Manuka	44	1.60	1.35

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HAWAII
JULY 1972

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DAILY PRECIPITATION

Continued

HAWAII
JULY 1972

Station	Total	Day of Month																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ISLAND OF MOLOKAI																																		
KALAUPAPA 543	A	.27		.03				.04							.03	.02	.07							.08										
KAUNAKAKAI 546	A	.00																																
KEONELEI PENS 551	A	.00																																
KUALAPUHI 534	A	.39												.03	.31																			
MAPULEHI 542	A	1.35	.39	.04			.08			.05				.16	.10	.10				.10	.05		.06	.01	.03			.08	.14		.01			
MAUNALO A 511	A	.02																																
MOLOKAI AP 524	A	.17					.01							.01	.02																			
PUOHOKU RANCH 542.1	A	.98		.07		.10		.09							.12			.15	.14			.20		.12		.02					.01			
WAIKULU 540	A	1.85											.45												.11									
ISLAND OF LANAI																																		
KANEPIU 690	A	.03																			.03													
KAUMALAPAI HARBOR 698	A	.00																																
LANAI CITY 672	A	.24		.03	.02						.01	T	.01	T		.01		.16	T															
LANAI-HALE 694	A	1.28					.07							.80							.36							.05						
MAHANA 694	A	.08																			.08													
MALAUFA 674	A	.00																																
WAIKAEHUA 685	A	.00																																
ISLAND OF MAUI																																		
AUWAHI-252	A	.05																																
HALEKALA 8 E S 434	A	1.54	.04					.06						.10	.84		.39													.05				
HALEKALA RANCH 432	A	.32													.32															.03	.02	.02		
HALEKALA RS 339	A	.56	.03	T	T						.04		.01	.01	.25	T	.10	.10	T										.01	.01				
HALEKALA SUMMIT 338.4	A	.55									.15				.02																		.38	
HALEKALA 423	A	.76						.20						.06	.46			.04																
HALEKALA 485	A	1.85	.57	.06	.01			.05	.11	.05			.03	.10	.24	.01	.31	.06																
HANA 354	A	3.21	.42	.21	.02	T	.01	.15	.04	.38	.28		.27	.15	.08	.08	.15	.04	.04															
HANA AIRPORT 355	A	4.32	.20	.40	.35		.03			.03			.02	.06			.56	.09	.03					.16	.02	.06	T	.12	.12	.02	.01	.10	.02	
HANAHUI 281	A	.26	T	.07	T							.10																						
HOLUA CABIN 295.5	A	6.12															.06																	
HONOKAHU 480	A	1.06	.04		.07						.10	.10		.08		.07	.10	.04		.18													6.12	
HONOKAHU 493	A	3.00																				.03				.02		.07		.04	.01			.11
HONOKAHU GULCH 341	A	.11												.01	.10																		3.00	
KAHONA INTAKE 374	A	1.90												.01	.03	T																	1.90	
KAHUHI WSO 398 AP	R	.04		T				T									T																	
KAILUA 426	A	3.56																																
KAILUA 446	A	8.31	1.20	.45	.12				.13	.34	.24		.31	.03	.09	.25	.78	.27	2.49	.13	.03						.06	.02	.62	.09	.10	.33	.03	.20
KAUAI INTAKE 375	A	.65																																
KAHUNA 410	A	.08							T						.04																			
KEANAE 346	A	17.50																															17.50	
KEAWAKAPU BEACH 260.2	A	.00																																
KIHEI 311	A	.00																																
KIPAHU 258	A	4.51	.48	.52	.27		.08	.10	.12	.15	.20	.09	.12	.10	.67	.54	.20	.10									.22		.23	.07	.25			
KULA HEIGHTS 323.2	A	.00																																
KULA SANATORIUM 267	A	.47		.07									.15	T	T		.01																.24	
LANAI 341	A	.00																																
LAUNIUPOKO INTAKE 376	A	1.50																															1.50	
LAUNIUPOKO VILLAGE 372	A	.00																																
LUPU UPPER 442	A	10.60																															10.60	
MAHINAHINA 466	A	.45						.10								.35																		
MAKALELE -FLO 60-497	A	1.43			.35													.58								.17							.33	
OLINDA 332	A	.33			.03							.03	T					.22	T											.05	T	T		
OLOWALU 294	A	.02													.02																			
PAAKEA 350	A	12.39		.27		.14	.06	.76	.23	.91	.37	.08	.26	.47	1.03	.37	3.87	.35	.12			.05			.11	.22	.98	.46	.64		.31	.38		
PAIA 406	A	.41	.08	T				.03	.01					.09	.09		.05									.01	T							
PANALEI-HU 259.2	A	2.77															.77																	
POHAKA BRIDGE 307.2	A	.00																															2.00	
POLIPOLI SPRINGS 267.2	A	.35																															.35	
PUOHOKAHOA 2 343	A	20.80																															20.80	
PUUMENE 396	A	.02												.01	.01		T																	
SPRECKELSVILLE 400.2	A	.15												.07	.03		.03														.02			
TWIN GATES 261.3	A	.00																																
UKULELE 333	A	1.42																															1.42	
UKUMEHAME 301	A	.00																																
ULUPALAKUA RANCH 250	A	.14												.03	.19																		.14	
WAIKULU 364	A	.19																																
WAIHEE CAMP 484	A	.21												.12	T		T					.09												

DAILY PRECIPITATION

Continued

HAWAII
JULY 1972

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KEALAKEUA 5.8	8.20																																
PEPEHA 181.7	8.00																																
WOLAKA A 6 F	2.51																																
KIPA 44.2	19.41	1.03	.76	.63	.05	.10	.01	1.43	.32	.74	.44	.27	.39	.24	1.63	.01	1.27	.19	.01	.01	.04	.08			.05	.16	2.40	3.44	1.43	.75	.35	.18	
KOHALA MA 111 176	3.53					.04	.08	.17			.21		.03	.08	.78			.09	.09	.01					.04	.25	1.05	.40	.04			.17	
KOHALA WISSI 5 155.1	3.33	.03	.03	.08	.01		.02	.17	.27	T				.04	.61		.07	T	.01	T		T		.09	.02	.02	.96	.66	.07	.05	.12		
KOHALA WISSI 155.1 194	6.70				.37			1.62						2.30								.56								2.00			
KOHALA WISSI 155.1 194	4.02										1.95	.34	.09	.26			2.68												.03				
KONA VI LAUF 93.8	.00																																
KURAIKU 222	9.84		.32			.19	1.28	1.23	.03			.02	T	.43	T							.02	.13	T			2.54	2.05	.50	.25	.30	.03	.02
KUHIMAFLE HIC 99	6.88	.0	.22	.12	.06	.05	.04	.92	.74					.56						.11	.02		.14			.02		2.12	.64	.36	.14		
KUHIMAFLE HILL 206	5.08				.30			.80					1.19	.80						.02		.05			.01		1.23	.30	.30		.25		
KULANI CAMP 79	6.15	.42	.05					.10	.40	.42	.19	.05	.08	.05	.90	.04	.50			.02					.01		.16	.86	.98	.65	.20	.03	.05
KULANI MAUKA 76	1.15							.18	.02	.02															.05		.30	.28					
KULANI SCHMID SITE 78	8.25	1.85						.77							1.53			.30						.40		.05					3.50		
LANIHA 69.2	7.37							.58	1.35	3.12	.35	.20	.13	.34	.98						.06	.08							.18				
MAKALAU 53	.70	.08					.12								.07												.12		.16	.15			
MAUKA 2	1.35										.30							.03	.02									.30			.05		
MAUKA KFA DNS 181.2	.11																																
MAUKA KFA SLOPE 085	2.01							.04	.01	.01								.13	1.10		.05	.43						.15	.09				
MIDDLE MO JADA 68.1	5.22											2.10			.62			1.84												.70			
MIDDLE PEN 147.1	.00																																
MOJULA 8	.45																																
MOJULAIN VIEW 91	11.93	.96	.20	.08	.01	.03	.03	.52	.38	1.09	.42	.18	.32	.21	.85	.03	1.00	.03	.02	.01	.03	.10	.02				.29	2.05	1.45	1.05	.40	.07	.15
NAALEHU 14	1.34					.05	T				.02	T			.07						.08				.03	T	T	.83	.26				
NAPOOPOO 28	5.77			.13							1.69						1.95																2.00
NIHULI 179	3.22				.21			.27			.16				.60			.02									.07	.03	.87	.45	.31		.23
OKALA 723	8.68	.15	.22	.32	T	.02	1.46	.83	.07	.03		.06	.07	.85	T	.05		.03	.01	.11	.11		.03	T	.01	1.85	1.21	.64	.45	.10	T		
OPIMIALE 24.1	2.14																	.04	.01	.04													
ORCHID LAND EST 91.5	9.03							1.80							2.49							1.22									3.52		
PAAUHAU 217	5.19	.14	.03	.14			.08	.61	.48			T		.78	.49			T		.03	.03	.11	T	T			2.00	.71	.23	.12	.01	.01	
PAAUHAU 222	7.52	.05	.22			.13	.72	.71	.02					.01						.03	.18						2.25	1.69	.59	.12	.01	.01	
PAAUHAU 21	.48					.01																					.09	.30	.07				
PAHOA 65	10.84	.84	.17	.07	.01	.02	.07	.69	.40	1.12	.43	.05	.37	.17	.39	.03	1.08	.04			.04	.14	.08	.12			.38	1.11	.95	1.35	.48	.10	.14
PAHOA 37	2.70																																
PAPAIKOU 44.1	11.11	.38	.31	.05		.02	.07	1.00	1.00	.00	.28	.27	.18	.10	.97	.07	.86				.08	.12		.08		.21	1.54	1.24	1.07	.53	.18	.10	
PAPAIKOU MAUKA 140.1	20.35	.54	.70	.29	.02	.14	.04	1.34	1.50	.86	.25	.27	.27	.55	1.07	.06	1.31	.02	.08		.36	.21	.01	.03	.22	4.08	2.95	1.71	.54	.90	.03	.03	
PIIHOHUA 89	20.40																																
POMAHUKA 107	.00																																
PUMAKO 94.1	.01																				.01												
PUU KIME 120	.81																																
PUU LAKE 102.1	.32																																
PUU LEHA 73	1.22																																
PUU MALE 113	.24																																
PUU MO 82	3.28	.49	.02					T	.23	.02		.05	.03	.06	.19	.01	.54	.08								T	T	T	1.50		.06	T	
PUU MAHAHA 94.1	.57	.20	.11							.19	.03																						.04
SADDLE ROAD 1 84	10.30							3.90							.64	.0																	
SOUTH POINT CORRAL 3	.31		.06							.01																							.24
UMUGA 118	1.69	.14				.05	.02	.11	.15						.47			.02			.06	.09	.02					.07	.30	.32	.07		
UPOLU POINT USCG 159.2	1.34		T			.02	.09	.03					T	.04	.30	T	.07									T		.13	.36		.10	T	
WAIKAKA SCO 88.2	15.71	1.28	.41	.57	.04	.02	.05	.83	.67	.84	.29	.22	.40	.33	1.32		1.00	.03	T		.02	.17			.06	.31	2.41	2.01	1.15	.74	.22	.32	

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover	sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
							150TH MERIDIAN													
							02	08	14	20										
HILU WSD 87 AP	30	0.5	5.2	15	E 15		92	85	74	87	3	6	13	5	2	0	29	26	8.8	
HONOLULU WSD 703 AP	6	15.4	16.1	30	NE 29+		71	65	51	66	12	6	0	0	0	0	18	65	6.9	
KAHULUI WSD 398 AP	5	14.5	15.3	32	E 03		82	69	54	74	10	2	0	0	0	0	12	71	6.3	
LIHUE WSD 1020.1 AP	5	11.3	11.7	23	NE 15+		82	78	69	79	4	18	2	2	0	0	26	51	7.7	

DAILY TEMPERATURES

HAWAII
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Station		Day of Month																																Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																		
ISLAND OF KAUAI																																		
KANALOHULUMULU 1075	MAX MIN	70 54	72 58	73 57	70 59	75 58	71 57	66 57	69 58	72 58	63 58	72 59	71 57	69 58	71 57	72 55	76 57	75 55	71 58	74 57	70 51	72 58	74 49	74 53	76 52	73 57	71 57	74 53	66 59	71 57	73 55	70 50	71.5 56.0	
KILAUEA POINT 1133	MAX MIN	83 75	80 77	80 75	81 75	81 76	80 76	80 75	82 76	82 72	82 76	82 77	80 74	81 75	76 73	81 75	81 74	82 73	78 74	82 77	83 79	82 77	83 77	80 72	80 73	79 76	81 77	84 75	81 75	81 77	82 74	81 78	80.7 75.2	
LIHUE WSO 1020.1 AP	MAX MIN	84 75	84 74	82 75	84 75	84 75	84 74	82 74	84 75	84 74	83 74	82 76	84 74	84 75	77 69	81 75	83 75	83 75	82 75	83 74	83 72	82 71	83 71	82 75	84 75	83 73	84 75	83 73	84 75	82 74	84 74	83 74	82.9 73.8	
MAKAHUEA POINT 940.1	MAX MIN	84 71	83 72	84 75	84 74	84 75	84 74	83 74	83 73	83 76	84 73	87 73	86 73	86 73	81 73	86 71	76 73	85 75	85 77	85 73	86 73	86 76	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	84.4 73.3	
MANA 1026	MAX MIN	87 68	89 67	87 68	89 71	88 67	89 66	87 68	89 68	87 68	89 68	86 68	86 69	87 70	88 69	78 66	84 68	88 71	87 70	88 70	88 68	89 66	89 67	87 66	89 68	88 68	89 67	88 67	89 67	88 67	89 67	89 67	87.6 67.9	
NIU RIDGE 1035	MAX MIN	81 63	82 63	81 64	83 64	81 62	83 63	83 62	84 63	82 62	80 63	83 65	84 65	84 66	85 65	83 66	84 65	83 65	84 65	84 65	84 65	82 63	83 65	83 65	85 65	84 65	85 65	84 65	85 64	83 63	84 63	83.2 63.9		
WAIAMI LOWER 1054	MAX MIN	81 65	81 66	80 66	81 69	81 70	81 66	82 67	79 68	79 69	80 68	78 69	78 69	79 68	79 67	79 67	80 64	80 68	79 68	81 60	81 66	81 62	80 61	81 62	82 64	82 69	81 67	81 66	81 66	80 67	81 66	83 65	80.4 66.2	
* * *																																		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN			89 68			88 71	86 72			88 71	86 73	85 72	86 73	84 70			87 69	88 71	88 68	88 67			88 67	86 72	86 71	88 69	86 71				86 67		
HONOLULU WSO 703 AP	MAX MIN	88 71	87 75	88 75	86 76	87 76	87 75	88 75	85 73	84 73	86 72	86 73	88 76	88 74	85 73	87 71	87 75	88 76	89 75	88 74	88 71	88 71	88 73	88 75	88 74	88 73	88 75	88 74	86 74	86 73	87 71	87 71	87.0 73.8	
HONOLULU SUBSTA 704	MAX MIN	83 74	82 73	83 74	81 76	82 75	82 75	82 74	82 73	80 71	82 71	81 74	81 74	80 73	80 73	82 71	82 74	83 75	82 74	82 73	81 73	81 73	81 73	82 72	83 73	81 73	81 73	81 74	81 73	81 74	82 72	83 73	81.6 73.3	
KAHUKU 912	MAX MIN	87 73	87 73	87 75	87 73	87 75	87 75	87 75	87 75	87 75	87 75	87 75	87 75	87 75	87 75	87 75	89 78	89 78	89 78	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87.1 76.0	
KANEHE MAUKA 781	MAX MIN	83 73	84 74	82 72	84 73	81 74	83 68	82 75	79 73	79 72	80 73	83 74	81 70	81 73	80 71	81 73	82 74	81 74	83 74	84 71	84 73	84 73												82.3 72.4
LUALUALEI 804	MAX MIN	87 66	86 74	86 74	90 74	91 65	89 74	88 75	89 76	86 75	89 72	86 72	89 72	88 72			90 72	90 75	89 72	91 68	85 67	87 71	89 70	89 67	90 76	92 76	92 76	89 76	88 76	89 76	88 76	88 76	88.6 81.7	
MAKAPUU POINT 724	MAX MIN	80 69	81 69	80 68	76 69	79 66	80 67	75 65	80 71	78 69	78 65	80 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77 66	77.5 65.1	
OPAEULA 670	MAX MIN	78 60	83 63	80 65	85 69	76 66	75 67	75 65	81 71	80 69	75 65	75 66	79 66	75 66	75 66	75 66	75 66	75 66	75 66	75 66	75 66	75 66	75 66	75 66	75 66	75 66	75 66	75 66	75 66	75 66	75 66	75 66	75.5 65.1	
PR1 WAHIAWA 820.2	MAX MIN	84 62	86 68	87 61	85 70	85 69	84 70	84 69	83 68	82 69	85 68	86 70	85 71	80 68	80 66	80 66	82 65	85 65	85 65	85 65	85 65	85 65	85 65	85 65	85 65	85 65	85 65	85 65	85 65	85 65	85 65	85 65	83.7 66.7	
WAIALEE 896.3	MAX MIN	85 73	85 72	84 71	85 74	86 73	85 73	84 72	83 71	83 71	84 71	84 74	84 74	85 71	82 70	85 72	85 73	87 73	87 73	86 73	86 73	84 71	84 73	86 73	86 73	86 73	86 73	86 73	86 73	86 73	86 73	86 73	84.5 70.0	
WAIALUA 847	MAX MIN	85 61	86 61	84 66	86 68	84 65	86 65	85 69	84 69	83 64	83 66	89 66	86 70	82 71	82 65	82 64	84 65	85 64	87 68	87 64	87 64	85 64	85 64	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	86 63	85.0 65.7	
WAIKIKI 717.2	MAX MIN	86 70	87 72	86 73	86 75	85 74	85 71		87 73	83 70	83 70	86 74	86 74	83 73	83 72	84 72	86 76	86 74	86 74	86 70	86 70	86 70	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	85.5 72.1	
WAIMANALO EXP FARM	MAX MIN	85 73	85 74	84 72	85 73	84 73	85 73	84 73	84 72	85 72	85 72	83 73	83 73	83 72	83 72	85 73	82 74	85 74	85 74	85 73	85 73	84 70	84 73	84 70	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84 73	84.1 72.7	
* * *																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	82 70	82 74	83 72	86 71	82 72	82 73	81 72	83 71	82 75	79 69	84 69	84 72	80 71	80 71	80 70	84 76	84 72	82 72	82 72	84 69	84 70	84 70	82 69	84 73	84 71	84 71	84 72	81 72		80 74	82 68	82.5 71.5	
* * *																																		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN				78 68	77 69	76 66	74 67	78 65		75 65	79 64	81 66	77 65	74 64	76 64		78 63	77 67	78 65	78 63	78 62	78 65	79 63		78 69	80 67	77 67	78 66	78 65		78 64	77.5 65.0	
* * *																																		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	59 47	64 45	64 46	69 57	75 56	70 50	63 44	64 44	62 45	61 46	65 54	72 54	75 50	62 42	62 45	58 45	66 52	72 54	70 49	70 48	68 44	65 44	65 51	74 56	71 44	64 43	66 46	61 41	64 41	64 39	59 37	65.9 47.1	
HALEAKALA SUMMIT 338.4	MAX MIN	59 40	56 41	52 41	63 44	61 49	55 46	60 44	57 42	52 40	56 40	56 47	55 49	64 47	55 41	55 42	57 43	60 42	59 47	64 48	62 44	58 40	59 44	64 46	64 46	64 46	64 46	64 46	64 46	64 46	64 46	64 46	58.6 43.8	
HANA AIRPORT 355	MAX MIN	83 66	85 69	85 68	85 72	85 68	85 70	84 68	83 67	80 67	82 66	82 69	82 67	83 67	82 67	84 70	80 64	83 67	85 66	85 65	82 64	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	85 66	83.7 66.9	
KAAHAPALI AIRPORT	MAX MIN	84 70	85 73	87 70	86 74	84 73	85 73	83 69	86 71	84 72	81 68	84 69	84 68	80 68	81 68	84 69	83 68	86 72	85 71	83 69	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	84.5 69.5	
KAHULUI WSO 398 AP	MAX MIN	88 64	88 72	88 68	88 73	87 73	86 71	87 71	85 69	86 70	88 71	87 74	86 71	88 65	88 65	89 65	87 62	88 72	88 72	87 61	88 70	86 68	88 68	88 68	88 68	88 68	88 68	88 68	88 68	88 68	88 68	88 68	86.7 69.1	
KAILUA 446	MAX MIN	76 66	79 66	76 66	78 68	78 69	78 69	77 67</																										

DAILY TEMPERATURES

Continued

HAWAII
JULY 1972

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX MIN	72 59	72 60	74 59	75 59	74 59	73 58	72 59	73 60	71 61	72 60	71 61	72 62	74 61	71 60	71 61	74 62	73 60	72 59	72 60	72 59	74 58	75 59	74 59	74 60	75 60	72 61	75 59	75 58	75 57	72 56	73.0 59.6	
LAHAINA 361	MAX MIN	87 67	87 68	89 67	87 68	87 67	88 66	87 68	86 67	86 67	86 67	88 67	88 65	86 65	87 66	89 66	87 67	88 66	86 67	89 68	87 69	88 68	87 66	88 66	88 67	88 67	88 67	89 69	89 65	89 65	87 66	87.5 67.2	
HAILUKU 386	MAX MIN				84 70	83 72	82 71	81 72			81 71	84 72	81 72	83 70	80 70			83 70	81 72	81 72	83 69	81 70				84 71	82 71	83 72	82 73	82 71		82 69	
ISLAND OF HAWAII																																	
HAINA 214	MAX MIN	77 66	80 67	81 67	82 66	82 70	82 68	80 68	80 67	80 67	79 70	81 70	80 69	82 69	80 67	80 67	80 70	82 70	82 70	81 66	79 66	83 68	82 65	82 69	81 68	82 69	84 69	78 68	80 66	80 66	81 64	82 65	80.8 67.9
HAWAII VOLCNS NP HQ 54	MAX MIN	68 57	70 57	71 56	71 56	71 56	68 54	71 56	67 56	68 57	63 56	64 56	69 56	67 54	69 52	68 56	68 52	72 56	71 53	72 53	69 52	70 55	73 55	69 55	57 49	71 55	68 53	65 50	67 50	69 53	65 53	68.6 54.5	
MILD WSO 87 AP	MAX MIN	81 70	83 71	83 69	84 70	83 71	83 70	80 70	80 70	79 70	79 69	82 68	81 67	82 68	80 66	84 66	84 69	83 69	79 67	83 69	82 69	83 68	83 69	84 68	83 69	84 71	82 69	82 68	82 67	82 64	82 66	82.0 68.8	
KAINALIU 73.2	MAX MIN	78 64	76 66	79 65	76 66	79 66	75 66	80 64	78 67	78 66	72 67	77 66	81 66	76 66	79 65	78 65	80 64	79 68	73 64	80 67	79 67	80 62	77 62	79 64	79 67	81 65	78 63	77 62	79 60	77 60	78.0 65.0		
KAMUELA 192.2	MAX MIN	75 58	72 58	72 59	73 60	68 59	72 59	70 60	72 61	70 61	70 59	72 59	71 60	72 60	71 59	73 60	72 60	72 60	74 60	73 59	74 59	72 60	72 60	73 60	74 60	70 60	70 58	71 59	72 59	74 59	72.4 59.3		
KEAAU 92	MAX MIN	79 65	79 69	81 69	80 69	82 68	81 68	82 68	79 68	79 68	78 68	79 68	80 67	79 66	81 66	80 65	79 65	82 68	82 68	82 67	78 67	82 68	81 65	81 68	81 68	82 68	82 68	80 68	77 66	79 66	80 65	81 65	80.3 67.2
KEALAKEKUA 26.2	MAX MIN	78 65	77 65	78 63	76 67	80 64	76 64	79 64	79 65	78 66	72 65	76 66	79 66	78 67	74 64	74 64	78 64	80 68	73 68	79 68	79 67	79 68	78 65	77 67	79 67	81 66	77 66	79 66	80 68	77 64	78 63	77 63	77.8 65.3
KOHALA MISSION 175.1	MAX MIN	79 69	82 68	82 68	82 71	82 71	82 69	83 68	81 68	80 70	80 72	80 72	80 71	82 68	80 67	80 69	81 71	82 72	82 70	83 66	83 69	82 67	84 68	82 70	82 70	83 70	78 68	80 67	80 66	81 66	81 66	81.3 68.9	
KONA (KAILUA) 68.3	MAX MIN			84 71		85 73	83 72	89 73			86 71	83 72	83 72	83 72	84 73			85 71	83 73	84 70	86 73	85 70			88 70	84 73	84 72	87 73	85 70		86 72		
KULANI CAMP 79	MAX MIN	64 45	64 50	65 49	66 48	68 49	68 51	65 54	62 52	62 54	58 50	60 53	64 53	64 50	52 48	64 54	66 54	66 48	62 48	68 44	68 49	65 42			72 48	63 52	65 54	65 56	63 52	55 50	59 47	60 45	63.6 49.7
MAUNA LOA SLOPE DBS	MAX MIN	54 37	55 37	60 37	56 39	55 37	52 39	53 36	50 35	52 39	54 41	58 44	63 46	62 46	54 40	54 40	54 39	54 36	54 37	50 36	50 34	52 34	58 38	58 38	54 38	52 38	54 38	52 38	56 38	55 37	54 39	59 39	55.1 38.5
MOUNTAIN VIEW 91	MAX MIN	76 61	76 61	76 61	76 61	76 61	74 63	74 63	74 63	74 63	74 63	70 63	73 63	71 61	77 61	77 61	77 61	72 61	76 63	76 63	77 60	77 60	77 60	77 60	77 60	78 64	74 63	73 63	78 64	78 63	78 63	75.6 61.6	
NAALEHU 14	MAX MIN				81 67	79 68	82 70				79 68	74 68	78 69	81 67			80 68	82 69	80 65	81 66				81 65	77 65	77 65	82 68	80 68	78 68		80 65		
UOKALA 223	MAX MIN	77 57	83 69	81 69	83 71	82 71	82 69	79 68	79 68	81 68	79 71	81 69	81 68	80 69	81 69	80 69	81 70	81 67	80 67	78 67	82 68	81 68	81 67	81 66	80 66	82 66	78 66	79 65	79 65	81 65	80.0 67.7		
UPIHIHALF 2 24.1	MAX MIN	80 64	80 63	81 66	81 66	78 63	80 63	80 64	80 64	74 67	80 63	79 66	77 66	72 65	77 64	84 66	75 68	78 65	75 66	77 66	81 66	77 63	77 66	75 66	78 66	84 66	75 63	76 61	78 59	81 61	78.3 64.3		
PAHALA 21	MAX MIN				82 63	81 63	81 67				81 65	77 66	79 64	80 66	84 66			81 65	84 63	81 63	81 63	80 64			82 62	81 67	82 68	83 65	79 65		82 62		
PUAKO 95.1	MAX MIN	86 72	87 73	87 75	86 75	87 73	86 75	89 75	86 76	86 76	83 72	83 72	87 77	88 74	88 74	87 73	83 71	87 73	86 75	85 72	88 71	87 73	88 74	87 72	86 73	87 73	87 73	87 74	89 73	84 71	84 70	86.6 73.5	
UPOLU POINT USCG 159.2	MAX MIN	81 73	83 73	83 73	84 76	83 74	82 68	83 70	84 71	84 71	80 73	82 71	82 71	83 70	81 74	83 74	84 73	83 77	85 70	85 70	85 74	85 70	85 70	85 73	85 70	85 71	83 70	83 68	84 68	85 70	83.5 71.6		

EVAPORATION AND WIND

Station	Day Of Month																															Total or Avg.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP	.34	.34	.31	.36	.32	.29	.53	.26	.34	.35	.28	.29	.32	.34	.30	.30	.35	.15	.23	.25	.28	.24	.33	.22	.25	.40	.33	.19	.34	.39	.35	9.77
	WIND	157	178	225	196										374	137	191	186	203	123	120	115	103	141	171	218	210	170	234	220	197	84	
	MAX	84	84	80	82	79	79	82	77	80	83	83	83	83	79	71	81	83	83	80	84	83	84	85	81	87	89	89	90	88	88	90	82.9
	MIN	62	63	62	63	63	62	62	62	62	63	63	63	62	61	60	60	61	64	64	64	67	61	61	62	71	70	70	70	69	69	69	64.0
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.37	.30	.45	.45	.37	.45	.45	.23	.24	.22	.28	.30	.36	.30	.24	.24	.34	.43	.30	.30	.30	.45	.45	.39	.20	.23	.45	.30	.38	.35	.33	10.45
	WIND	31	32	43	51	48	47	55	33	30	33	53	49	58	46	35	28	49	47	32	31	23	27	29	35	42	39	38	48	39	35	27	1213
	MAX	88	91	92	91	88	90	91	92	83	84	85	88	87	87	86	88	92	94	92	93	88	95	92	91	88	87	92	87	91	90	91	89.5
	MIN	65	66	67	67	66	65	65	67	67	67	68	66	65	66	66	65	68	67	66	66	66	65	62	66	67	66	65	65	65	65	65	65.9

TION IN

HAWAII.
JULY 197

STATION	INDEX NO.	DIVISION	DRAINAGE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES	OBSERVER	STATION	INDEX NO.	DIVISION	DRAINAGE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES	OBSERVER								
						TEMP PRECIP EVAP SPECIAL								TEMP PRECIP EVAP SPECIAL									
ISLAND OF KAUAI								ISLAND OF MOLOKAI															
ALEXANDER RESV. 983	0140	02	KOLOA	21 57	159 32	1610	7A	MOOREY SUGAR CO. INC.	PIUMOHU J RANCH 542.1	8540	01	MOLOKAI	1 21 09	156 44	700	6A	PIUMOHU RANCH						
ALUO 1033	0141	02	KOLOA	21 57	159 32	1610	7A	LIHUE PLANTATION CO	MOLOKAI 540	8540	01	MOLOKAI	1 21 09	156 44	700	6A	MOLOKAI RANCH						
BRIDGES-DOWD ST 985	0240	02	KOLOA	21 56	159 30	1620	7A	MOOREY SUGAR CO. LTD	ISLAND OF LANAI	8540	01	MOLOKAI	1 21 09	156 44	700	6A	ISLAND OF LANAI						
EAST LAVAL 934	0436	02	KOLOA	21 55	159 30	1630	7A	MOOREY SUGAR CO. LTD	KANEPUU 690	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
ELI 1033	0437	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	KAHALAPUAPU BOMB 658	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
ELEETE 727	0438	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	LANAI CITY 672	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0439	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0440	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0441	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0442	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0443	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0444	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0445	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0446	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0447	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0448	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0449	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0450	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0451	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0452	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0453	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0454	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0455	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0456	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0457	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0458	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0459	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0460	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0461	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0462	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0463	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0464	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0465	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0466	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0467	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0468	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0469	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0470	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0471	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0472	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0473	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0474	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0475	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0476	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0477	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0478	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0479	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0480	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0481	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0482	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0483	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0484	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0485	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0486	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0487	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0488	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0489	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0490	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0491	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0492	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0493	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0494	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0495	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0496	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0497	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0498	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0499	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0500	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO	HALEA 1110	8540	01	MOLOKAI	1 20 52	157 00	1630	7A	MOLOKAI RANCH						
HALEA 1110	0501	02	KOLOA	21 55	159 30	1630	7A	LIHUE PLANTATION CO															

STATION INDEX

HAWAII
JULY 1972

STATION	INDEX NO. DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO. DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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1 DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAUA 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-NO INTRA-ISLAND DIVISIONS LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in "F.", precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.

No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates

+ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

+ Amount included in following measurement, time distribution unknown.

A The letter "A" shows following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index". Indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

J "Supplemental Data" table.

M One or more days of record missing, if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain

In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly, usually on the last day.

OK Gage readings at periods varying from a few weeks to several months.

US Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.

— Observation time is near sunset.

VAR Observation time is variable.

W Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and "FORM DATA", all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

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William H. Hoggard
Director, National Climatic Center

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CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

AUGUST 1972
Volume 68 No. 8

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station	Temperature										Precipitation																
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max. Min.								Total	Max. Depth on Ground	Date	10 or More	30 or More	100 or More				
										90° or Above	80° or Above	70° or Above	60° or Above														
ISLAND OF KAUAI																											
ANAHOLA 1114 A	75.0	56.4	65.7		80	29	49	5+		0	0	0	0	1.92	-.97	.18	14	.0	0		3	0	0				
KANALOHULU 1075														1.04				.0	0								
KAPAA STABLES 1104 A														3.17				.0	0								
KILAUEA FIELD 17 1135 A														4.79	-2.90			.0	0								
KILAUEA POINT 1133	83.2	76.8	80.0		88	30+	74	23+		0	0	0	0	6.37		4.30	5	.0	0		10	1	1				
KOLUA 936														3.47	-3.05			.0	0								
LITHUE WSD 1020.1 AP //R	84.8	75.0	79.9	1.5	86	29+	71	5		0	0	0	0	1.27	-1.19	.36	21	.0	0		3	0	0				
MANA 1026	89.4	68.4	78.9	.6	92	19+	65	4		14	0	0	0	1.51	-.48	.47	31	.0	0		1	0	0				
N WAILUA DITCH 1051 A														10.43				.0	0								
PH WAINIHA 1115														7.53	-3.12	1.56	21	.0	0		13	7	2				
PUEHU RIDGE 1040														.47		.19	31	.0	0		2	0	0				
WAHIAWA 930 A														.94	-1.58			.0	0								
WAIAMI LOWER 1054	83.4	67.2	75.3		88	29	64	25+		0	0	0	0	6.20		1.02	12	.0	0		21	2	1				
WAIWEA 947														.15	-.89	.15	21	.0	0		1	0	0				
ISLAND			76.0											3.45				.0									
ISLAND OF OAHU																											
HONOLULU OBSERV 702.2														.80		.55	31	.0	0		2	1	0				
HONOLULU WSD 703 AP	88.3	73.9	81.1	1.7	90	15+	68	4		3	0	0	0	.46	-.43	.16	30	.0	0		1	0	0				
KAHUKU 912 A	87.1	75.6	81.4	3.1	88	31+	72	31		0	0	0	0	2.03	-.63	.41	19	.0	0		5	0	0				
KANEDHE MAUKA 781	83.9M	73.1	78.5M	1.4	85	31+	70	23+		0	0	0	0	3.54	-.75	.60	2	.0	0		11	2	0				
KOOLAU DAM 833 A														7.31	-1.22	1.42	20	.0	0		14	5	1				
LUALUALEI 804														.75		.55	26+	.0	0		2	0	0				
MAKAPUU POINT 724 A	89.6	73.0	81.3		92	31+	66	5+		18	0	0	0	1.39	-.37	.84	9	.0	0		4	1	0				
NUUANU RES 4 783	80.2	72.0	76.1		84	9+	66	11		0	0	0	0	6.10	-4.49	1.00	20	.0	0		15	5	1				
PAPEULA 870 A	79.5	65.3	72.4	-.6	83	20	60	23		0	0	0	0	1.63	-2.28			.0	0								
PALOLO VALLEY 718 R														7.30	-4.44	1.14	29	.0	0		18	4	1				
PRI WAIHIAWA 820.2 A	84.9	66.8	75.9		88	7	62	7		0	0	0	0	2.19		1.12	1	.0	0				1				
WAIHIAWA OAM 863 A														1.49		.56	1	.0	0				1				
WAIHOLE 837 A														7.95	-3.88			.0	0								
WAIALEE 896.3 A	86.0M	72.6M	79.3M		88	28+	69	11		0	0	0	0	2.68		.52	21	.0	0				1				
WAILUA 847 A	86.6	67.2	76.9	.2	90	8	62	1		1	0	0	0	1.06	-.32	.24	10	.0	0		5	0	0				
WAIKIKI 717.2	87.2M	72.1M	79.7M		89	15+	66	23		0	0	0	0	.60		.36	30	.0	0		2	0	0				
WAIMANALO EXP FARM	85.6	73.5	79.6		88	29	70	31		0	0	0	0	1.29	-.42	.26		.0	0		4	0	0				
WAIPIHU 750 A														.39	-.84	.11	31	.0	0		2	0	0				
ISLAND			78.4											2.72				.0									
ISLAND OF MOLOKAI																											
KUALAPUU 534 A														2.29	1.07	1.20	30	.0	0				1				
MAPULEHU 542														3.22	.32	.59	19	.0	0		10	2	0				
MAUNALO 511 A														1.08	-.12	.60	30	.0	0		3	1	0				
MOLOKAI AP 524	83.2	71.6	77.4		86	22+	67	1		0	0	0	0	1.29		.48	30	.0	0		5	0	0				
ISLAND			77.4											1.97				.0									
ISLAND OF LANAI																											
LANAI CITY 672 A	79.4M	65.0M	72.2M	.3	85	30	62	5+		0	0	0	0	.62	-1.16	.30	29	.0	0		1	0	0				
ISLAND			72.2											.62				.0									
ISLAND OF MAUI																											
HALEAKALA 8 E S 434 A	65.7	47.4	56.6		73	28	41	23		0	0	0	0	4.51	-.17	1.97	30	.0	0		6	4	1				
HALEAKALA RS 338														2.88		1.05	19	.0	0		6	2	1				
HANA AIRPORT 355	84.6	68.1	76.4		88	3+	65	23		0	0	0	0	7.51		.97	20	.0	0		21	6	0				
HONOKOHU 493 A														3.05	.47			.0	0								
KAAHAPALI AIRPORT	85.8	70.5	78.2		89	7	66	23		0	0	0	0	.48		.39	30	.0	0		1	0	0				
KAHULUI WSD 398 AP	87.5	70.6	79.1	.1	94	6	63	4		4	0	0	0	.84	.49	.43	29	.0	0		3	0	0				
KAILUA 446	79.1	67.6	73.4	.2	82	31+	65	11+		0	0	0	0	10.45	-.86	2.14	20	.0	0		17	7	2				
KEANAE 346 A														17.20	-4.55			.0	0								
KIPAHULU 258														6.01	-2.45	1.89	19	.0	0		17	2	1				
KULA SANATORIUM 267	75.7	59.8	67.8	1.1	81	19	56	25		0	0	0	0	2.59	.30	1.52	25	.0	0		4	2	1				
LAHAINA 361	88.7	68.3	78.5		91	19+	66	24+		7	0	0	0	.18	-.24	.17	30	.0	0		1	0	0				
PAIA 406														1.63	-.29	.59	30	.0	0		5	1	0				
WAILUKU 386 A	83.3M	71.2M	77.3M	-.7	87	7	68	11+		0	0	0	0	1.37	.51	.83	30	.0	0				1				
ISLAND			73.4											4.52				.0									
ISLAND OF HAWAII																											
HAINA 214	82.4	68.4	75.4	.9	85	30	65	24		0	0	0	0	7.09	2.45	1.92	19	.0	0		9	5	2				
HAWAII VOLCAN NP HO 54	71.3	55.9	63.6	.0	77	29	51	16		0	0	0	0	5.96	-1.63	1.88	31	.0	0		9	4	2				
HILD WSD 87 AP	84.2	68.8	76.5	.7	88	31	64	26+		0	0	0	0	8.77	-2.68	2.33	20	.0	0		15	4	3				
HUEHUE 92.1														.83	-1.89			.0	0								
KAINALIU 73.2 A	79.5	64.7	72.1		84	18	62	26+		0	0	0	0	5.79	-1.90	1.63	31	.0	0		7	4	3				

See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 97

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
AUGUST 1972

Station		Temperature										Precipitation																																																																																																																																																																																																																																																																																																																																																																																														
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Total	Departure From Normal	Greatest Day	Date	Snow Sleet			No. of Days																																																																																																																																																																																																																																																																																																																																																																																			
											Max.		Min.							Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	10 or More	50 or More	1.00 or More																																																																																																																																																																																																																																																																																																																																																																													
											90° or Above	80° or Above	70° or Above	60° or Above	50° or Above															40° or Above	30° or Above	20° or Above	10° or Above	0° or Above	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below	0° or Below

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 94° ON THE 19+ AT 2 STATIONS

LOWEST TEMPERATURE: 33° ON THE 11TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 21.78 INCHES AT HONOMU MAUKA 138, HAWAII

LEAST TOTAL PRECIPITATION: .00 INCH AT 2 STATIONS

GREATEST ONE-DAY PRECIPITATION: 7.22 INCHES ON THE 18TH AT UMIKOA 118, HAWAII

SPECIAL WEATHER SUMMARY

During the last three weeks of August, Hawaii was threatened by three tropical storms that drifted into the area from their spawning grounds off the coast of Mexico and Central America. The first of these, Hurricane CELESTE, passed westward well south of the State and went on to strike Johnston Island. The other two, Tropical Storms DIANA and FERNANDA, swung northward before reaching Hawaii, although DIANA's course brought it close to the islands during its dying stages.

In life cycle and track, CELESTE, DIANA, and FERNANDA were reminiscent of LORRAINE and MAGGIE in August 1970 and DENISE and ELEANOR in July 1971. All formed off Mexico and Central America, failed to undergo the usual northward recurvature in the Eastern Pacific, and then travelled thousands of miles westward toward Hawaii along the southern periphery of a strong high pressure area.

CELESTE attained full hurricane strength on the morning of the 10th, near 16° N, 131° W. It then gradually swept west-southwestward, reaching its southernmost latitude on the evening of the 13th, when about 480 miles south-southeast of South Point, Hawaii Island. From this point CELESTE turned west-northwestward on a direct course for Johnston Island, passing about 380 miles south-southwest of South Point, its closest approach to the Islands. Waves up to 15 feet high pounded the coast of Hawaii Island, from Kapoho to South Point on the 14th and Kona on the 16th. On the 17th, three small fishing boats west of South Point were swamped and one of them smashed against the rocks, for a total loss of \$2,000.

Early on the 19th, CELESTE, which had been heading directly toward Johnston Island, abruptly swerved to a more northwesterly course. That afternoon the storm center passed only about 25 miles northeast of Johnston, sweeping the island with hurricane-force winds; but then weakened rapidly as it moved north-northwestward. The tiny island had been entirely evacuated as a precaution against the possible escape of the toxic gases stored there, but appears not to have sustained serious damage. Further details may be found in the August 1972 issue of Climatological Data, Pacific.

DIANA, born a few days after, and about 500 miles southeast of CELESTE, became a hurricane on the afternoon of the 12th after reconnaissance aircraft reported maximum surface winds of 75 m.p.h. DIANA continued northwestward, reaching 19° N, 137° W on the afternoon of the 15th, and then swung westward. By the evening of the 17th, DIANA lay about 320 miles east of South Point, having weakened to tropical storm strength on the

morning of the 16th. The storm then began a slow recurvature to the northwest, still aimed at Hawaii. On the morning of the 19th, DIANA was poised 60 miles northeast of Hilo, nearly stationary, and still a threat to the State. But this proved to be her closest approach. She then moved off northwestward, parallel to the Islands, and rapidly dissipated.

On the morning of the 18th, waves estimated to be 30 feet in height struck Hawaii Island's Puna coast at Kalapana, Kapoho Beachlots and Kapoho Vacationland. At Vacationland, which was most severely hit, the waves swept four homes off their foundations, extensively damaging one of them, flooded another home, washed rocks and debris inland, and eroded 200 feet of a private road. A couple suffered minor cuts and bruises when they were knocked down and swept into the bushes by a wave. Damage was estimated at \$75,000 to the homes, excluding furnishings, and at \$2,000 to a swimming pool in nearby Pohoiki. Tides at Hilo Harbor rose 4 to 5 feet above normal, beginning about 8 a.m. of the 18th and lasting throughout the day.

On Maui, the only reported storm damage was the loss of some sand from Hamoa Beach on the eastern shore by waves estimated at up to 20 feet high, but of short duration.

FERNANDA formed near 11° N, 104° W on the morning of the 19th and moved west-northwestward, reaching hurricane strength on the afternoon of the 21st, when near 13° N, 111° W. It was downgraded to a tropical storm early on the 26th. Coming to within 450 miles east of Hawaii Island by the afternoon of the 27th, FERNANDA's forward motion slowed, and it recurved to the northwest. On the morning of the 29th, diminishing rapidly in strength, it passed within 220 miles of Hilo, its closest approach to the islands.

On the afternoon of the 31st, perhaps as an aftermath of FERNANDA, a flash flood from rains in Hawaii Island's Kohala Mountains overtopped Waipio Stream, damaging a farmer's pickup truck and destroying his 16 bags of taro.

Rainfall over the State was uneven: above normal in some areas, but -- despite DIANA and FERNANDA -- below normal in most.

Kauai's rainfall reached its August mean at only a few places in the northeast, and then only barely. Elsewhere, it was below normal. Southwest and northwest areas were driest, with less than one-fourth their means for the month.

On Oahu, also, only an occasional gage exceeded its monthly mean, while a greater number, mainly

SPECIAL WEATHER SUMMARY - Continued

leeward of the Koolaus, reported less than half their August normals.

On Molokai, owing largely to FERNANDA, rainfall exceeded August normals except in the southwestern portion of the island, but neighboring Lanai was deficient everywhere.

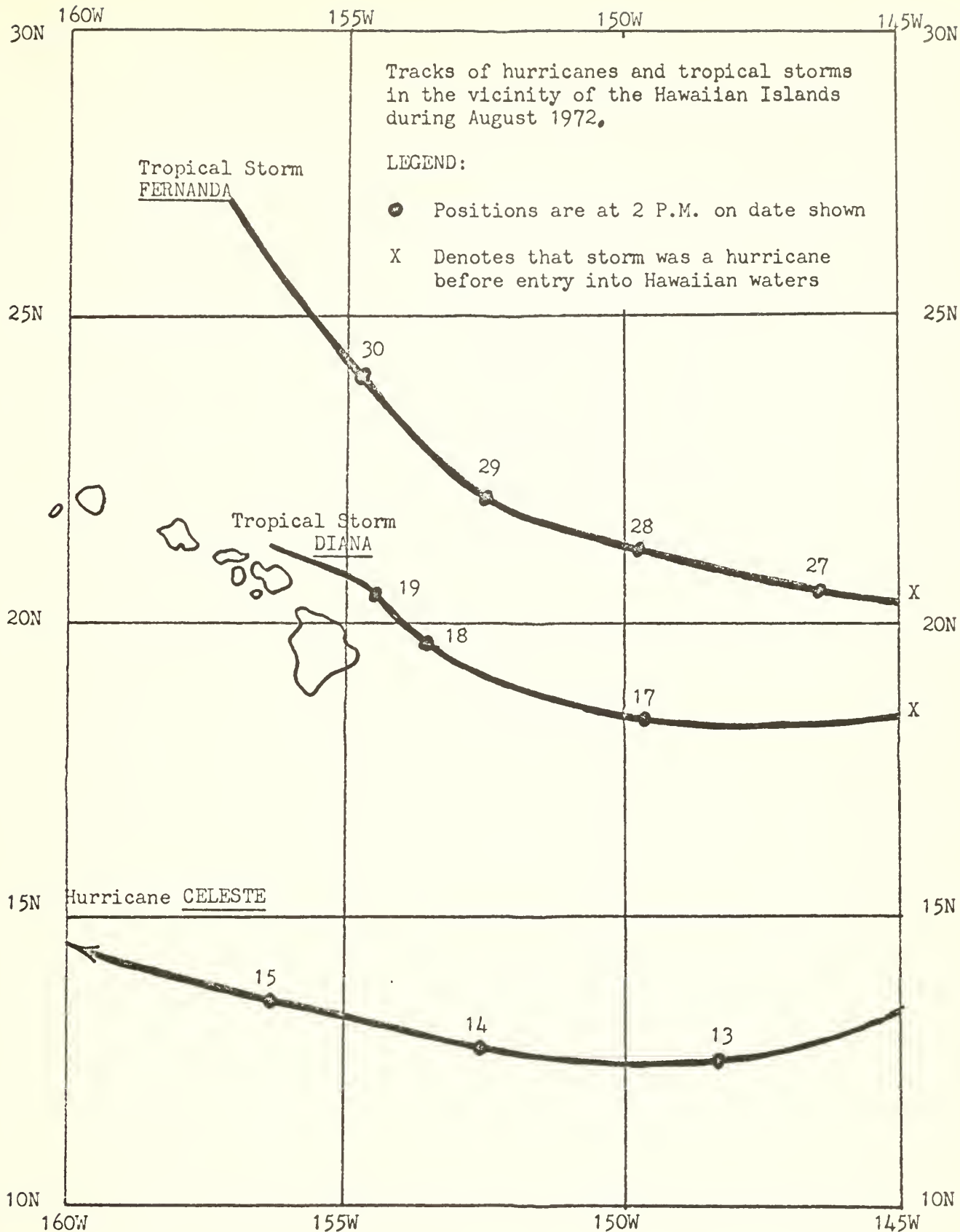
Maui's central valley had two to three times its August normal -- mainly from FERNANDA on the 29th, and much needed in that long-dry area. But East Maui, including the mountain watersheds, was below normal, despite rains from DIANA

in the Waikamoi Dam and Paakea areas.

On Hawaii Island, Moaula, and Pahala on the southeastern slopes of Mauna Loa, registered two and three times, respectively, their normals for the month, aided by DIANA. Relieved, also, was the chronically deficient Hamakua Coast. At Haina, for example, this was only the second month out of the past 17 in which rainfall reached or exceeded its monthly mean. Kohala, on the other hand, as well as the North Kona and Hualalai Districts, had under half their August averages, and the Kawaihae area was entirely dry.

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DAILY PRECIPITATION

HAWAII
AUGUST 1972

Station		Day of Month																																		
		Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF KAUAI																																				
ANAMOLA 1114	A	1.92																																		
BRYESWOOD STA 985	A	1.54		.22	.02	.01	*				.19						.18						.05	*	*	.43	.03	.03	.06	*	*					
EAST LAKE 934	A	4.21	.01	.21	.14	.11	*				.04	.03	.06				.76						.12	*		.56	.15	.02	.02							
ELELE 927	A	1.95		.19	T						.06	T	.06				.51						.08	*		.76	.11	.07	.01	.11	*					
HALEKUA 1110	A	2.93			.30	.03	*				.13	T	.03	.20			.65						.12	*		.60	.03	.07	.02	*						
HALENAHMO 1006	A	5.21		.14	.15	.05	*				.12	.16	.13	.02	.26	*		.94					.04	.02	.46	*		1.07	.51	.04	.32	.24	*			
HUKIPO 945	A	.60																.43																		
ILIIILUA INTAKE 1050	A	9.58	.06	1.24	.11	.26	*				.22	.25	.08	.65	.39	*	2.04	.16					.04	.03	.91	*		1.75	.03	.15	.32	.08	*			
INTAKE WAINIHA PC 1086	A	4.67		*	*	*	*	*									.47	*										.97	*		.87	*				
KANALOHULULU 1075	A	1.04	.05	.03	.03						.09	.07					.18							.05		.02	.15			.16			.05			
KANEHA RESERVOIR 1092	A	6.55	.15	.05	.11	.30	*				.30	.20	.08	.02	*		.90					.10	.30	*	*	.90	.15	.35	.32	.10	*					
KAPPA STABLES 1104	A	3.17		.08	.23		*				.14	.34	.02	.22	.02	*	.40						.20	*		.57	.20	.12	.03	*						
KALIA 1112	A	2.32			.20	.04	*				.20	.02	.28	.03	*		.10						.15	*		.48	.02	.10	*							
KELAKEA 944	A	.39													.09																					
KILAUEA 1134	A	3.12			.10	.05	*				.21	.05		.02			.25	.15					.02	.40	*		.50		.06	.44	.07	*				
KILAUEA FIELD 17 1135	A	4.79			.30	.12	*				.48	.06	.02	.03	*		.50	.18					.02	.42	*		.87		.10	.57	.18	*				
KILAUEA POINT 1133	A	6.37	.10		.28	.43	.09				.12	.15	.02	.04	.05	.02	.23	.50					.33	.01	.05	.05			.01	.20	.11	.01	*			
KOLOA 936	A	3.47			.10	.09	*				.20	.13	.08			.13	*		.64				.01	.05	.34	*		.89	.19	.04	.05	.03	*			
KOLOA MAUKA 994	A	5.63	.02	.17	.09	.04	*				.13	.14	.13	.10	.41	*		.67	.06				.05	.02	.45	*		1.49	.06	.06	.58	.04	*			
KOLOA RES 1137	A	5.18			.12	.20	*				.50	.10	.13	.10	*		.56	.20					.05	.09	.40	*		1.00		.15	.50	.50	*			
KOLUJUA 935	A	2.23		.06	.02	.06	*				.11	.03	.06	.04	.12	*		.23						.08	*		.49	.04	.05	.04	.06	*				
LIMUE VARIETY STA	A	4.44		.06	.29	.09	.08	*			.15	.18	.34	.05	.31	.24	*	.13	.03	.08				.47	.23	*	.71	.08	.29	.28	.07	.19				
LIMUE 1020	A	2.62		.01	.05	.09	*				.05	.01	.01	.09	*		.22	.05					.01	.23	*		.67	.01	.27	.02	*					
LIMUE ASD 1020.1 AP	R	1.27	.04	.06	.04	.05	.02	T			.07	.01	.04	.02	.03	*		.02	.13	T		.05	.36	T		.07	.04	.16	T		T					
MAKAKUENA POINT 940.1	A	1.29	.01			.01						.01	.01	.11	.01	.15	.02					.11	.10	.06	.22		.02	.14	.08	.06	.11					
MAKAWAI 965	A	.35	.17														.01								.12		.03									
MANA 1026	A	.51																																		
MOHIMI LPR CROSS 1083	A	1.67			.07						.41	.04	.14		.07								.07	.07			.50	.17		.08	.08	.03	.17			
MOLOAA 1145	A	3.11			.19	.13	*							.04	*		.23	.09					.08	*		.58							.39			
MOLOA WATIALEALE 1047	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NIU RIDGE 1035	A	.60	.15								.33	.24	.14	.08	.24	*		.10						.03		.78							.56			
N. KAILUA OITCH 1051	A	10.44	.08	1.51	.28	.07	*				.04	T	.05	.18	.02	.50		.52	.15	.02			.02	.54	.70	.01	2.40		.36	.30	.50	*		.56		
PH. WAINIHA 1115	A	7.53	.01		.07	.02	.22	.02	.04	T	.05	.18	.02	.01	.87			.52	.10	.10			.01	.61	*		.58		.02	.30	.07	*		1.03		
PRINCEVILLE RANCH 1117	A	4.73			.11	.03	*				.26	.06	.01	.02	.01	*		1.10																		
RUENI RIDGE 1040	A	.47			.06	.16	.09	*			.13	.05	.05	.05	.25	*		.11															.09			
RESERVOIR 6 1004	A	3.57		.07	.11	.16	.15	*			.07	.09	.07	.05	.51	*		.25					.08	.16	*		.97	.04	.03	.28	.06	*		.76		
WAILANA 930	A	.94		.06	.02	*					.01	T	.06		.10	*		.81	.09				.43	*		.91		.04	.34	.02	*		.49			
WAILANA MOUNTAIN 990	A	8.25													.10	*		.10	*				.07	*		.31	.01	T					.07			
WAILANI LOWER 1054	A	6.20	.03	.20	.03	.10	.05	.09	.24	.10	.22	.06	.17	1.02			.20	.19				.13	.02	.43	.33	.07	.76	.21	.02	.23	.25	.18	.31	.19	.14	.23
WAILANI UPPER 1052	A	6.63	.23	.45	.03	.03	.09	.04	.03	.20	.03	.20	.01	.87			.73	.10	.02			.03	.01	.65	.45	.50	.70	.05	.03	.36	.06	.07	.05	.30	.01	
WAILANA 943	A	.39									.11																									
WAILUA KAI 1065	A	21.99		.07	.07						.34		.09	*			.16					.16		.16	*		.67		.12	.09	*		.24	.06	.16	
WAILUA 947	A	.15																																		
WEST LAKE 931	A	1.88		.15	.06	.01	*				.04			.04	.16	*		.17					.08	*	*	.45	.02	.01		.02	*	*	.24		.43	
ISLAND OF OAHU																																				
BERETANIA PUMPING STA	A	.96																						.04		.02	.10	.07					.16		.47	
CAMPBELL IND PK 702.5	A	.55																																		
CAMP 84 807	A	1.45	.07									.04	*															.30	.03					.17		
CHURCH COLLEGE LAKE	A	3.84	.04	.02	.01			.03	.12	*	.05	.54	.17	.32			.19	*					.07	.08		.04	.09	.14		.81	.26	.74	.10	.20	.02	.21
CONDUIT ISLAND 840.1	A	1.57		.02		.04					.02	.23					.09	.19	*							.10	.05	.01		.03	.35	.15	.04		.33	
EWA PLANTATION 741	A	.51	.25																															.01	.22	
HELEMAN INTAKE 881	A	2.53										.26	*				.03	*																		
HOKULUA 725.2	A	.64	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
HONOLULU OBSERV 702.2	A	.80										.12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
HONOLULU WSO 703 AP	R	.46	T	T	T	T					.08	.05	T	.02			T	T					T	T	T	T	T	.02	.09	T	T	.02	.16			
HONOLULU SUBSTA 704	R	.69									.06	.01											.02				.08	.05					.01	.21	.14	
H S P A EXP STA 707	A	.114		.06		.01	.01				.07	.02	.02				T						.01	.08			.05	.24		.02	.03	*		.11	.39	T
KAPANA POINT 841.3	A	14.80		*	*	*	*	*	3.80	*		.08	.03	*	*		3.96	*	*																	

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Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF MOLOKAI																																	
KALAUPAPA 563	A	3.74	.12	.04	.03		.04	.29			.06	.10	.06	.11						.74	*	*	*	*	.07			1.81	.27		.41	.04	
KAUNAKAKAI 536	A	3.47																			*	*	*	*							1.29		
KEONELELE PENS 551	A	1.20																						.02							.41		
KUALAPUU 534	A	2.29			.02					.03	.04	.03	.22	.02	.02					.01	*	*	*	.49				.02	T	1.20	.26		
MAPULEHU 542	A	3.22	.12			.02	.12			.06	.04						.16	.58	.59	.23			.09	.03	.15	.06	.06		.43	.05	.14		
NAUNALOA 511	A	1.08			.01					.05	.12				.01						*	.05						.03		.60	.17		
MOLOKAI AP 524	A	1.29			.01					.23	.16	.01		.02					.02	*				.02	*			T		.48	.04		
PUUOHOKU RANCH 542.1	A	2.88																		.11	.23	T					T						
WAIKOLU 540	A	5.87				.34					.30												4.98					.25					
ISLAND OF LANAI																																	
KANEPUU 690	A	.53	*	*	.20	*	*	*	*	*	.03	*	*	*	*	*		.01	*	*	*	*	*					*	*	*	*		.17
KAUHALAPAU HARDDR 658	A	.00																															
LANAI CITY 672	A	.62	.05	*				.07							.08				.02	*								.01	.30	.06	*		
LANAIWALE 684	A	1.50	*	*	.05	*	*				.11	*	*	*	*	*		.40		*	*	*	*		.01	*	*	*	*	*	*	.93	*
MAHANA 694	A	.13																														.13	
MAHAUEA 676	A	.16																.06														.10	
WAIKAEKUA 685	A	.96																														.96	
ISLAND OF MAUI																																	
AUWAHI-252	A	1.48		.05						.07										.57	.71	.56	.01	.96									
HALEAKALA 8 E S 434	A	4.51			.04	*	*	*	*		.01	.09	*		.05	.01																	
HALEAKALA RANCH 432	A	2.81	*	*	*	*	T	T				.03	.19	T	T					.18	1.05	.44	.25	T									
HALEAKALA RS 338	A	2.88						T			T	*	*	*	.53				.02	*	*	*	*					.02	T	.71	.03		
HALEAKALA SUMMIT 338.4	A	2.67																		.02	*	*	1.55	T						.03	.50	.04	
HALIIMALE 423	A	2.72				.01				.05										.11	.32	*	.14				*		.02	.04	1.85	.18	
MAHAKUKU 485	A	3.90	.02	.03	.10		.04			.01	.10	.12		.25	.06	.15				.32	.66	.47	.23			.05		.03	.09				
HANA 354	A	9.86		.05	.03	.03	.44	*	.35	.03	.53	.45	.34	.09	*	.65	.02		.07	.32	.66	.47	.23			.01	.14	.02	.10	.10	.05	.10	
HANA AIRPORT 355	A	7.51	.05	.05	.13	.18	.19	.20	.11	.30	.40	.66	.50	.23	.07			.04	.04	.19	.89	.97	.12			.10	.09	.51	.10	.10	.37	.29	
HANAHULI 281	A	6.24		.09	.09	.26	.07	.16	.10	.09	.10	.15	.49	.57	.04			.12	.04	.08	.99	1.31	.29			.07	.10	.06	.09	.02	.03	.92	
HOLUA CABIN 259.5	A	3.44	.18	*	*	*	.01			.10	.57	*	.15	*	*	*				*	*	2.43	*	*	*	T	T	T	T	T	T		
HONOKOHU 480	A	11.50	*	*	*	*	*																										
HONOKOHU 493	A	3.05			.10		.04	*	.05		.04	.06	*	*	.21				.16	.39	1.00	*	*			.14	.01	.13	.03	.02	.65	.10	
HONOHU GULCH 341	A	8.40	*	*	*	*	*																										
KAANAPALI AIRPORT	A	.48									.02									.04	.01	.01							.01	.39	T		
KAHOMA INTAKE 374	A	2.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*																	
KAMULUI WFO 398 AP	R	.84	T	*	*	*	*		T	.01	*	*	*	*	*	*				.12	.01	*	*	*	*	*	*	*	T	*	.43	.23	
KAILIILI 436	A	8.55																															
KAILUA 446	A	10.45	.48	*	.30	.02	*	.06	.03	.03	.06	.15	.95	.25	1.23	.39	.30	.07	.05	.76	.65	2.14	.71		.02	.11	.08	.10	.32	.03	.17	.97	
KAUAU INTAKE 375	A	.63													.07																		
KEAHUA 410	A	1.83			T						.05									.01	.08	.01	*	*	*	*		.03		.05	1.55	.05	
KEANAE 346	A	17.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*																	
KEAWAKAPU BEACH 260.2	A	.10																															
KIMEI 311	A	6.01	.29	.06	.20	.10	.20	.30	.15	.09	.53	.22	.20	.04			.06	.03	.36	1.89	.20	.16					.18	.14	.24	T	.10		
KIPAHULU 258	A	6.01																															
KULA HEIGHTS 323.2	A	1.65										.17	.11																				
KULA SANATORIUM 267	A	2.59	T									.05	.07	.03																			
LAHAINA 361	A	.18										.01																					
LAUNIPOKO INTAKE 376	A	2.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*																	
LAUNIPOKO VILLAGE 372	A	.42																															
LUPI UPPER 442	A	12.80	*	*	*	*	*	*	*	*	*	*	*	*	*	*																	
MAHINAHINA 466	A	1.69														.05																	
NAKALELE -FLO 60-497	A	3.11						.12	*	*	*	*	*	.53	*	*				.23	.20	.25	*	*	*	*	*		.24		.96		
OLIMOA 392	A	3.07					.03	T				.03	.04	T																.07	.03	1.23	
OWALU 296	A	.34																															
PAAKEA 390	A	16.65	.17	.05	.46	.07	.32	.02	.08	.07	.29	2.10	.56	1.23	.52	.57	.24	.58	1.11	1.11	2.91	2.04	.05		.10	.20	.08	.06	.33	.07	.90	.32	
PAIA 404	A	1.63			.03		.01				.01	.03		.08	.08	.02			.11	.38	.11	.02											
PANILEIYHULU 259.2	A	2.70																															
POMAKA BEIDGE 307.2	A	.78																				.07	*	*	*	*	*	*	*	*	*		
POLIPOLI SPRINGS 267.2	A	2.27																															
PUHONOKA 2 343	A	21.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*																	
PUUNENE 396	A	1.22									.01																						
SPRICKELSVILLE 400.2	A	1.39			.02						.01	.03			.04					.09	.22	.03							.01	.01	.75	.24	
TWIN GATES 261.3	A	2.03	*	*	*	*	*	*	*	*	*	*	*	*	*	*																	
UKULELE 333	A	2.66	*	*	*	*	*	*	*	*	*	*	*	*	*	*																	
UKUMEHAME 301	A	.18																															
ULUPUWUA RANCH 250	A	4.10		.02							.01	.18																					

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Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KALAKEUA 70.2	6.71			.01			.03	T	.29	.36	.01	T									.82	1.14	1.09		.13			.02		.06	2.75		
HEHENA 181.2	1.50																																
1214449 A 6 F 6	1.15																																
1PA 49.2	17.82	.35	2.61	.32			.24		.17	T		.41	.09	.62	1.47	.55		.56	.56	3.06	.64	5.74								.03	.05		
KOHALA MAHILI 176	3.45			.08	.01				.07			.11		.19	1.09	.03		.19	.62		.96	.01							.03	.09	.07	.13	
KOHALA MISSION 175.1	2.52		T	.11				T	.05			.12	T	.25	.40	.02		.28	.24	.23	.18	.41	T			2.00		.03	T	.03	.09	.08	
KOHALA LOWER 196	10.03				.15			T				1.10										.06										.77	
KONA KAILUA 68.3	.84			T																												1.95	
KONA VILLAGE 93.8	9.95																															.77	
KULAU 222	9.98		.10	.04				.03	.07	T	.11	.54					.11	.63	3.60	.21	1.46			.01			.06		.05	.81	.04	.11	
KUKUIHAELE HIC 199	6.40			.02			.16		.06			.05		.36	1.31	.31		.05	.60	2.10	.50	.26							.15	.14	.63		
KUKUIHAELE HILL 206	5.39			.01								.07		.15	1.51	.22		.06	.45		.20	.08										.70	
KULANI CAMP 79	7.81	.06	.10	.06			.05					.02	.15	.15	.13	.05	.03	.01	.57	1.72	.18	1.30										2.90	
KULANI MAUKA 76	1.87											.25																				.70	
KULANI SCHOOL SITE 78	4.88				.29															3.17							1.17						
KANIMAU 68.2	1.93							.13	.09			.11										.96	.52							.32		.04	
KAKAHUAI 103	2.78							.24														1.90											
MAUKA 2	8.41						.50	.30				.50	T						.06	.28	.08									.10	7.00		
MAUNA KEA OBS 111.2	.70																		.31	.07												.86	
MAUNA LOA SLOPE OBS	1.34																																
MIDDLE POLULOA 68.1	.80			.15																													
MIDOLF PEN 147.1	1.00																															7.10	
KOHAULA 18	7.10											.16	.12	.27	.57	.27	.13	.31	.39	1.78	.37	3.21	.02			.02	.02					1.23	
MOUNTAIN VIEW 91	10.97	.15	1.23	.20		.05	.35		.01		.02	.10		.01							1.12	.27							.01			1.34	
MAALEHU 14	3.53	.02	.75	T																													
NAPPOPOD 28	2.06														.78							1.15								.13		.03	
NIULII 179	2.45							.02				.12			.52	.08		.43	.23			.82								.06	.05	.03	
KOHAULA 223	11.60	.05	.02	.04	.12			.19	T	.09	.10	.16	.13	1.02	.87	.71	.01	.32	.62	3.70	.11	2.50						T	.05		.13	.97	
OPINIHAE 2 24.1	6.75									.02	.04	.18	.91	.02	.05	.01		.14	.46	.10	.56	.13	1.46	.11		6.78	.02	T		.13	3.04	.70	
ORCHID LAND EST 91.5	7.69																																
PAALUHU 217	6.67			.05							.07	.03		.16	1.40	.07		.02	.33	1.93	.53	.84							.07	.25	.92	.12	
PABULO 221	8.39		.13	.03				.02	.13	T	.03		.36	.97	.64	T	.06	.71	3.06	.25	1.16	T							.07	.59	T	.17	
PAHALA 21	9.76	.05	1.37										.21	.44	.94	.05	.04	.35	.55	2.50	1.50	2.49	.04		.47		.02	.06	T		.11	.09	
PANDA 65	10.48	.04	.15	.12		.13	.19		.09	.14	.06																					5.90	
PANDA 37	5.90																																
PAPAIAU 144.1	13.99	.46	.58	.12	.03	.15	T	.45	.20			.58	.58	.73	1.31	.07	.06	.62	.38	3.28	2.20	2.03	.03		.03	.01	T		.03	.10	.09		
PAPAIAU MAUNA 140.1	19.57	.69	1.75	.19		.44		.26	.07			.57	.65	.78	2.40	.72	.13	.43	.65	3.58	2.43	3.65	.03					.02				14.60	
PIIHOUA 89	14.60																															.31	
PONAKULA 107	1.31																																
PUAKO 95.1	T				T																T	T											
PUU KIME 120	6.84																															5.84	
PUU LAU 102.1	3.42																															3.92	
PUU LEHUA 73	1.20																															1.20	
PUU MALI 113	3.80																															3.80	
PUU OO 82	4.04			T							T				.71	.02	.01				.25	.45	1.10						.98	.12	.22	.18	
PUU WAHAA 94.1	1.32											.47																					
SADDLE ROAD 1.84	10.16					.12								.03								.55											
SOUTH POINT CORRAL 3	.70													.03	.41	.14																.21	
UMUKOA 118	11.48								.02	.32		.04		.02	.19					7.22	1.22	1.06						.06	T	.02	.75	.18	
UPOLU POINT USCO 159.2	.84																			.15	.05	.13	.01										
WALAKEA SCO 88.2	16.41	.37	3.85	.29		.18		.04	.06			.71	.20	.53	1.12	.54	T	.32	.54	2.03	.86	4.02				.02						.73	

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation								Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
							150TH MERIDIAN													
							02	08	14	20										
HILO WSD 87 AP	36	1.2	6.2	25	NW	19	90	80	70	86	5	7	11	1	2	1	27	49	6.2	
HONOLULU WSD 703 AP	5	12.3	14.1	28	NE	19	71	67	53	66	14	7	1	0	0	0	22	72	4.9	
KAHULUI WSD 398 AP	4	11.7	13.0	30	E	16+	81	73	59	75	11	4	3	0	0	0	18	70	4.3	
LIHUE WSD 1020.1 AP	4	10.2	10.9	24	NE	20	81	76	66	76	10	15	3	0	0	0	28	68	5.6	

DAILY TEMPERATURES

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Station		Day of Month																																Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																		
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	70 49	74 51	77 56	76 51	76 49	75 56	72 60	75 58	72 58	73 58	73 57	74 57	75 57	75 53	78 51	75 58	79 58	76 61	77 60	72 61	77 62	76 53	77 57	70 57	77 54	73 56	75 55	78 57	80 59	73 61	76 58	75.0 56.4	
KILAUEA POINT I133	MAX MIN	83 74	82 76	83 77	82 77	82 75	81 77	81 77	82 76	82 78	83 76	83 74	81 78	81 77	83 76	87 78	81 76	82 74	80 78	81 75	81 78	85 78	83 80	87 74	87 78	81 78	83 76	87 80	88 81	84 76	88 80	86 76	83.2 76.8	
LIHUE WSO 1020.1 AP	MAX MIN	84 73	83 73	84 74	83 71	84 71	84 76	85 72	85 74	86 75	85 75	85 76	85 76	86 76	85 77	86 76	86 77	85 76	85 76	85 76	85 77	85 75	83 76	87 72	87 72	81 76	83 76	85 75	86 76	85 75	84 73	88 73	84.8 75.0	
MAKAHUEA POINT 940.1	MAX MIN	87 69	84 77	88 73	86 73	86 71	87 71	87 78	87 79	87 74	84 78	85 79	83 74	85 75	85 71	85 71	85 71	85 71	85 71	85 71	85 71	83 72	85 71	86 72	86 70	86 66	86 69	85 69	86 68	85 68	84 69	85 70	85.4 72.2	
MANA 1026	MAX MIN	85 67	89 70	89 68	88 65	88 68	88 67	90 65	89 68	89 67	92 65	91 68	90 66	91 66	90 66	90 66	89 66	88 67	89 66	89 67	91 70	89 72	90 66	89 69	90 69	89 67	89 68	90 68	87 69	91 68	90 70	88 73	89.4 68.4	
NIU RIOGE 1035	MAX MIN	84 64	85 64	85 63	84 61	83 61	85 64	84 63	85 64	85 65	83 64	83 64	85 64	84 63	83 65	85 64	84 63	85 64	85 65	85 64	84 65	86 65	84 65	86 65	84 64	85 63	85 63	84 64	83 63	85 65	84 65	84 66	84.4 64.0	
WAIHI LOWER I054	MAX MIN	83 64	83 64	84 68	84 65	85 64	86 64	83 71	84 68	86 67	82 66	83 67	83 67	82 67	83 67	75 68	83 69	83 70	84 70	84 70	83 70	82 70	84 67	84 66	83 66	83 66	83 66	84 66	85 66	88 68	87 65	85 65	83.4 67.2	
* * *																																		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	87 67	85 69	87 69	87 67			90 68	89 69	90 70	87 70	89 69			89 72	90 74	90 75	88 73	88 76			88 73	89 68	89 68	89 69	88 70				90 70	89 73	89 76	86 71	88.4 70.7
HONOLULU WSO 703 AP	MAX MIN	84 70	88 73	87 74	87 68	90 70	89 76	89 76	69 75	87 71	89 72	89 74	88 75	89 75	90 76	90 76	89 76	89 76	89 77	88 74	85 74	88 76	88 74	89 70	89 73	89 71	89 75	89 73	89 71	87 75	89 76	86 74	88.3 73.9	
HONOLULU SUBSTA 704	MAX MIN	81 73	84 74	81 74	84 72	85 73	84 76	83 76	83 75	81 72	83 73	84 76	84 74	85 75	85 76	85 77	84 76	84 76	84 77	83 76	80 75	84 76	83 73	83 73	83 73	82 74	82 70	82 74	82 76	81 74	82 74	82 73	83.1 74.4	
KAHUKU 912	MAX MIN	87 75	87 75	87 74	87 74	88 74	85 76	87 76	87 77	87 75	87 73	87 75	87 79	88 77	88 77	88 76	88 76	87 76	87 76	87 76	87 76	87 76	88 75	87 75	87 77	87 77	86 73	86 78	86 77	88 75	88 72	88 75	87.1 75.6	
KANEHE MAUKA 781	MAX MIN	85 70		82 73	84 73	82 73	85 74	83 74	85 73	85 72	83 72	85 70	83 72	85 70	84 73	85 76	85 75	84 76	82 75	85 76	83 77	83 75	85 71	85 70	85 71	85 71	85 71	85 72	85 71	85 72	83 74	85 75	83.9 73.1	
LUALUALEI 804	MAX MIN	89 66	86 68	89 70	88 66	88 66	88 71	92 76	92 74	92 69	88 70	91 74	90 75	90 75	90 77	92 76	91 77	88 77	88 77	88 77	89 78	89 75	89 74	89 68	89 73	87 74	87 71	87 74	89 75	90 77	90 74	92 70	89.6 73.0	
MAKAPUU POINT 724	MAX MIN	84 70	78 75	80 72	81 71	79 76	78 76	82 73	83 72	84 69	78 74	82 66	80 71	81 70	82 69	78 76	80 70	80 69	80 71	81 70	81 70	78 69	83 71	78 71	83 71	82 71	77 74	77 73	78 76	82 74	82 72	75 75	80.2 72.0	
OPAEULA 870	MAX MIN	80 64	76 65	80 63	79 62	80 65	81 67	80 65	81 66	80 63	75 63	80 67	80 69	80 66	79 66	80 66	80 67	78 65	78 67	80 67	79 66	83 71	80 65	80 66	79 66	80 66	80 66	80 66	82 67	81 65	80 66	79 66	79.5 65.3	
PRI WAIHANA 820.2	MAX MIN	86 63	86 66	85 66	84 63	87 64	86 66	88 62	86 65	84 66	84 65	82 65	84 67	82 65	86 67	87 69	86 66	86 70	84 69	84 70	80 69	86 66	85 66	85 66	85 66	84 65	84 65	84 67	87 65	85 71	86 72	84 68	84.9 66.8	
WAIALEE 896.3	MAX MIN	86 71	86 72	86 71	85 71	85 71	87 73	87 73	87 74	87 72	85 70	85 69	85 72	85 71	86 75	87 73	87 75	87 75	87 75	85 75	85 74	85 72	87 74	87 72	85 72	85 71	85 72	85 71	87 73	87 74	85 74	85 75	86.0 72.6	
WAIALUA 847	MAX MIN	86 62	86 65	89 65	86 64	83 64	87 64	88 66	90 66	89 67	86 67	86 64	84 64	85 68	85 69	89 69	88 68	87 85	85 71	85 71	85 71	85 71	87 65	88 66	88 66	87 66	88 66	88 66	87 66	88 66	85 73	84 70	86.6 67.2	
WAIKIKI 717.2	MAX MIN	85 69	86 70	87 72	86 67	88 68	88 71	89 74	88 72	88 70	86 71	86 72	86 74	87 75	88 74	89 75	87 74	86 73	88 75	88 74	88 74	88 74	88 74	88 74	88 74	87 71	88 70	88 76	87 74	88 74	87 74	85 70	87.2 72.1	
WAIMANALO EXP FARM	MAX MIN	85 73	85 73	85 73	85 73	85 73	87 74	86 75	87 74	86 73	85 72	85 74	86 72	85 72	86 75	86 75	86 74	86 74	86 74	86 75	85 73	85 74	79 74	86 72	86 73	85 72	85 72	85 74	87 75	88 74	85 74	85 70	85.6 73.5	
* * *																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	76 67	82 70	83 72	83 69	81 69	84 74	84 72	85 73	84 70	83 70	82 71	83 71	84 77	86 73	85 70	83 72	83 71	83 71	84 72	83 73	81 73	86 72	85 71	83 72	84 70	85 70	84 76	85 73	84 73	78 73	81 71	83.2 71.6	
* * *																																		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	79 62	84 64	79 64	77 64	60 62		79 64	79 65	81 67	79 67	70 66			80 64	81 68	83 66	80 66	76 65			79 65	81 65	78 66	77 65	78 65				79 63	79 65	85 65	82 68	79.4 65.0
* * *																																		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	61 43	63 42	67 44	65 42	64 42	63 47	70 51	69 48	66 54	66 45	58 43	64 45	72 46	69 55	68 48	69 50	71 51	61 49	64 52	64 50	69 48	67 41	63 47	63 43	64 50	63 50	73 56	71 52	62 52	64 49	65.7 47.4		
HALEAKALA SUMMIT 338.4	MAX MIN	60 46	64 51	70 52	67 48	66 46	64 46	59 42	60 40	56 40	54 39	50 41	56 42	68 44	61 44	58 47	56 46	64 44	64 42	57 43	55 41	67 42	49 38	51 40	54 40	50 44	59 47	58 43	53 44	56 44	58.9 43.8			
HANA AIRPORT 355	MAX MIN	86 68	88 68	88 67	85 68	86 70	86 68	87 69	87 67	86 66	85 67	82 66	84 66	85 66	84 71	80 73	84 73	82 70	82 67	82 67	84 65	84 65	84 65	84 65	84 65	84 65	84 65	84 65	84 65	84 65	84 65	84 65	84.6 68.1	
KAANAPALI AIRPORT	MAX MIN	84 70	86 70	85 68	86 68	85 71	86 72	86 68	87 71	87 73	86 69	86 70	85 68	87 74	87 70	88 71	86 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85 70	85.8 70.5	
KAHULUI WSO 398 AP	MAX MIN	90 66	88 64	86 65	85 63	90 66	92 68	89 71	88 72	88 73	87 72	84 68	88 68	89 72	89 74	88 75	89 69	88 74	89 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	88 70	87.5 70.6	
KAILUA 446	MAX MIN	79 65	79 65	79 67	79 67	80 67																												

DAILY TEMPERATURES

Continued

HAWAII
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Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX MIN	74 57	77 59	76 57	75 59	74 60	76 62	75 60	75 59	75 59	76 60	75 58	68 59	75 62	79 63	78 60	79 59	75 60	79 63	81 66	80 64	72 60	78 57	78 58	72 57	73 56	75 59	75 59	75 60	78 58	74 59	74 65	75.7 59.8
LAHAINA 361	MAX MIN	88 68	88 69	88 69	88 68	89 69	91 69	90 69	89 68	88 68	88 68	88 68	89 69	89 69	90 70	88 68	90 69	91 69	88 69	89 69	88 66	88 66	88 66	87 67	88 67	88 67	87 67	88 67	90 67	88 70	88 70	88 70	88.7 68.3
HAILUKU 386	MAX MIN	82 70	85 70	83 70	82 68			87 71	83 72	83 71	83 70	82 68			83 71	85 72	85 73	84 74	82 73			84 70	84 72	82 71	82 72	83 72			85 71	84 72	82 73	81 72	83.3 71.2
* * *																																	
ISLAND OF HAWAII																																	
HAIRNA 214	MAX MIN	82 68	83 68	83 67	82 67	83 67	83 71	83 67	84 67	84 67	84 67	84 67	83 70	83 70	81 69	83 71	83 71	83 71	77 67	78 67	77 69	81 67	82 66	82 65	83 65	82 66	82 67	82 67	82 70	84 70	85 71	84 72	82.4 68.4
HAWAII VOLCNS NP HO 54	MAX MIN	71 55	70 57	65 53	73 52	68 54	75 56	67 54	73 55	73 54	72 55	71 54	70 55	74 54	74 59	67 56	72 51	71 57	76 60	68 62	68 61	64 57	71 54	70 63	71 52	73 54	74 55	75 56	75 55	77 52	75 63	67 59	71.3 55.9
HILO WSD 87 AP	MAX MIN	85 70	84 72	82 68	87 67	87 70	85 71	85 72	83 68	83 64	84 64	85 69	85 69	86 72	86 69	81 68	85 71	85 73	78 79	85 72	85 71	84 67	83 65	85 64	83 65	84 69	85 64	84 69	85 69	85 69	87 70	88 70	88.2 68.8
KAINALIU 73.2	MAX MIN	79 64	81 65	78 65	79 63	80 63	80 66	78 65	78 64	78 63	75 63	77 66	79 64	80 63	80 64	82 64	81 64	82 65	83 69	79 65	79 65	79 63	78 62	80 62	79 62	78 68	79 68	80 68	82 65	78 61	81 68	79.5 64.7	
KAMUELA 192.2	MAX MIN	80 55	82 58	75 60	74 53	82 56	76 60	75 60	75 62	74 60	74 60	74 60	76 61	75 62	72 62	74 62	74 62	70 60	72 59	73 58	75 60	74 59	74 58	75 58	74 58	76 60	75 60	76 62	76 62	78 63	75.1 59.9		
KEAAU 92	MAX MIN	82 65	82 68	81 66	82 66	84 66	84 68	83 69	83 68	82 65	83 64	84 65	81 66	82 66	81 70	83 67	79 68	82 70	75 69	82 70	78 69	82 67	82 65	82 63	82 62	84 64	84 65	84 65	86 67	86 70	87 70	82.4 66.9	
KEALAKEKUA 26.2	MAX MIN	80 64	82 65	81 66	79 63	81 64	80 66	81 65	80 64	79 63	76 64	80 65	80 65	79 63	80 64	82 67	83 65	82 66	84 66	84 69	78 65	79 66	79 64	79 62	79 62	78 61	78 63	81 66	83 65	79 67	81 69	80.2 65.0	
KOHALA MISSION 175.1	MAX MIN	82 66	83 68	81 67	81 67	84 69		83 71	83 70	83 70	83 69	84 67	83 70	82 69	83 70	81 70	83 72	82 70	81 72	79 68	80 68	79 68	81 68	81 68	82 68	82 68	84 69	83 71	84 71	85 73	86 73	82.3 69.3	
KONA (KAILUA) 68.3	MAX MIN	86 72	88 70	85 73	86 70			87 72	86 72	87 72	85 70	87 74			86 71	87 73	88 73	88 75	89 73			83 70	85 74	86 72	86 71			87 70		88 71	93 73	88 74	86 72
KULANI CAMP 79	MAX MIN	66 47	67 54	61 49	68 45	68 49	68 54	68 46	68 48	68 51	68 48	68 53	64 49	69 54	69 54	65 49	65 47	67 52	68 57	68 55	64 55	62 48	65 45	65 45	65 48	68 51	67 49	68 49	70 48	72 49	72 53	61 56	66.5 50.6
MAUNA LOA SLOPE OBS	MAX MIN	57 44	63 42	59 44	57 40	57 40	54 38	54 38	53 36	54 37	54 34	48 33	52 36	59 43	61 37	59 37	60 43	62 42	48 41	50 40	52 37	51 39	54 36	51 35	52 34	54 34	60 38	58 41	56 38	54 38	58 41	49 40	55.2 38.6
MOUNTAIN VIEW 91	MAX MIN	78 61	79 60	77 62	79 60	81 60	81 60	81 60	78 63	78 60	79 59	79 59	80 61	80 61	80 61	74 65	80 62	73 62	76 65	76 66	76 66	77 66	77 61	77 58	79 57	80 57	82 59	82 59	82 59	83 63	80 65	84 66	78.9 61.4
NAALEHU 14	MAX MIN	82 70	83 69	78 66	82 66			82 68	82 66	81 66	81 66	81 68			84 68	81 71	82 70	80 69	85 65			87 67	80 68	80 66	82 66	82 66			84 65	85 67	89 71	81 68	82.3 68.4
POKALA 223	MAX MIN	80 68	82 68	81 69	81 67	82 71	82 71	82 69	82 70	82 67	81 67	82 68	82 68	83 66	82 70	79 67	83 72	82 70	82 71	76 66	81 68	76 67	80 69	81 68	80 67	81 69	81 68	82 68	83 69	83 71	81 73	85 73	81.3 69.3
OPIHIHALE 2 24.1	MAX MIN	83 62	76 63	79 61	79 61	81 63	77 65	77 65	79 63	77 62	77 63	79 62	82 62	84 66	84 68	83 66	86 65	84 68	84 65	77 67	82 63	79 61	80 60	76 59	75 61	82 63	81 64	78 65	79 69	84 66	79.9 63.9		
PAHALA 21	MAX MIN	84 66	84 67	80 62	83 63			83 64	83 62	83 63	83 62	83 62			86 64	83 66	83 67	82 67			85 69	81 64	80 61	80 62	82 62			84 60	84 67	86 68	80 71	83.1 64.7	
PUAKO 95.1	MAX MIN	84 70	91 71	88 74	88 70	86 72	86 72	88 76	88 74	89 73	87 72	87 73	87 72	87 76	85 75	87 73	89 71	88 75	91 79	90 76	91 78	87 73	87 74	87 71	86 71	86 72	87 71	88 72	87 73	91 72	88 75	87 76	87.6 73.2
UPOLU POINT USCG 159.2	MAX MIN	86 71	87 78	86 72	84 71	87 71	85 72	87 73	85 72	85 72	84 71	84 70	85 72	86 72	84 72	85 74	85 71	84 72	78 74	82 72	85 72	82 72	84 72	83 71	84 71	84 71	85 71	86 71	85 69	85 73	85 72	85 76	84.5 72.5

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * * KAUAI																																		
LIHUE WSD 1020.1 AP		EVAP WIND MAX MIN	.33 173 93 70	.29 84 94 70	.33 169 91 70	.35 137 92 70	.71 114 91 69	.33 129 94 69	.33 165 94 77	.30 150 94 71	.40 161 92 71	.41 167 91 71	.38 185 90 70	.33 183 90 71	.36 171 91 71	.33 144 91 71	.35 146 94 72	.41 256 92 71	.46 250 90 71	.29 220 91 71	.28 201 91 73	.33 218 92 73	.22 267 85 73	.32 188 90 71	.31 128 91 70	.25 99 91 70	.36 146 90 70	.34 144 92 70	.25 126 90 70	.32 107 95 72	.36 133 93 72	.32 108 91 72	.27 78 93 72	10.22 494.7 91.2 71.1
* * * OAHU																																		
HONOLULU OBSERV 702.2		EVAP WIND MAX MIN	.25 34 90 66	.23 22 89 67	.45 35 92 66	.36 28 93 66	.28 28 87 68	.30 31 91 68	.30 33 93 68	.27 31 93 67	.30 30 92 67	.25 25 92 65	.30 28 92 64	.30 31 93 67	.43 31 93 67	.35 37 95 69	.38 53 93 66	.45 53 89 66	.30 47 89 67	.30 53 89 67	.40 53 90 69	.37 47 91 68	.27 34 92 68	.37 33 94 66	.36 26 94 66	.32 23 89 66	.34 28 90 66	.33 24 91 67	.37 23 92 69	.24 25 92 69	.40 32 94 70	.32 13 93 70	.14 13 85 69	10.03 99.7 91.4 67.3

See Reference Notes Following Station Index

STATION INDEX

HAWAII
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STATION	INDEX NO.	DIVISION	COUNTY	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	OBSERVER	STATION	INDEX NO.	DIVISION	COUNTY	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	TEMP.	PRECIP.	EVAP.	SPECIAL	OBSERVER
ISLAND OF KAUAI													ISLAND OF MOLOKAI												
ALEXANDER RESV. 983	0340	02	KOOLA	2	21 57	159 32	1610						MCBOYDE SUGAR CO.												
ANAHOLE 1114	0149	01	KOOLA	1	21 57	159 32	1610	7A					MCBOYDE SUGAR CO.												
BRAYEDWOOD STA 985	0240	02	KOOLA	2	21 56	159 32	720						MCBOYDE SUGAR CO.												
EAST LAHAI 734	0450	03	KOOLA	3	21 56	159 32	275						MCBOYDE SUGAR CO.												
EWK 3 RESERVOIR 1094.1	0450	03	KOOLA	3	21 56	159 32	275						MCBOYDE SUGAR CO.												
ELEETE 927	0470	02	KOOLA	2	21 54	159 35	163						MCBOYDE SUGAR CO.												
HALENAHUA 1000	0110	01	KOOLA	1	21 54	159 35	163						MCBOYDE SUGAR CO.												
HALENAHUA 1000	0110	01	KOOLA	1	21 54	159 35	163						MCBOYDE SUGAR CO.												
HANALEI TUNNEL 1053	0170	01	KOOLA	1	21 55	159 38	1218						MCBOYDE SUGAR CO.												
HANALEI 742	0210	01	KOOLA	1	21 55	159 38	1218						MCBOYDE SUGAR CO.												
ILILIULUA INTAKE 1080	0222	02	KOOLA	2	21 55	159 38	1035						MCBOYDE SUGAR CO.												
INTAKE WAHINA PK 1080	0227	01	MAHELE	1	21 55	159 38	1035						MCBOYDE SUGAR CO.												
KANALOAHULU 1075	0099	03	MAHELE	3	21 55	159 38	3600						MCBOYDE SUGAR CO.												
KANOA RESERVOIR 1092	0100	01	MAHELE	1	21 55	159 38	3600						MCBOYDE SUGAR CO.												
KAPPA STABLES 1104	0159	01	MAHELE	1	21 55	159 38	1035						MCBOYDE SUGAR CO.												
KELIA 1112	0162	01	MAHELE	1	21 55	159 38	1035						MCBOYDE SUGAR CO.												
KERAKET 940	0272	02	MAHELE	2	21 58	159 43	3350						MCBOYDE SUGAR CO.												
KILAUHA 1134	0501	01	MAHELE	1	21 55	159 38	1035						MCBOYDE SUGAR CO.												
KILAUHA FIRE 71 1135	0501	01	MAHELE	1	21 55	159 38	1035						MCBOYDE SUGAR CO.												
KILAUHA POINT 1133	0501	01	MAHELE	1	21 55	159 38	1035						MCBOYDE SUGAR CO.												
KITANO 1037.1	0460	03	MAHELE	3	21 52	159 41	2150						MCBOYDE SUGAR CO.												
KOLO 1033	0475	03	MAHELE	3	21 52	159 41	2150						MCBOYDE SUGAR CO.												
KOLOA 936	0472	02	KOOLA	2	21 55	159 38	240						MCBOYDE SUGAR CO.												
KOLOA MAUNA 994	0475	02	KOOLA	2	21 55	159 38	240						MCBOYDE SUGAR CO.												
KOLOKO RES 1137	0478	01	MAHELE	1	21 55	159 38	240						MCBOYDE SUGAR CO.												
KULUOLA 935	0450	02	KOOLA	2	21 54	159 38	1035						MCBOYDE SUGAR CO.												
LAHAI 734	0450	02	KOOLA	2	21 54	159 38	1035						MCBOYDE SUGAR CO.												
LAHAI 734 STA	0450	02	KOOLA	2	21 54	159 38	1035						MCBOYDE SUGAR CO.												
LAHAI 1020	0450	02	KOOLA	2	21 54	159 38	1035						MCBOYDE SUGAR CO.												
LAHAI 1020-1	0450	02	KOOLA	2	21 54	159 38	1035						MCBOYDE SUGAR CO.												
MAKANIWA POINT 90-1	0705	02	KOOLA	2	21 52	159 37	103						MCBOYDE SUGAR CO.												
MAKANEI 905	0584	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
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MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
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MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55	159 38	140						MCBOYDE SUGAR CO.												
MAHA 1026	0082	03	MAHELE	3	21 55																				

U.S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

AN EQUAL OPPORTUNITY EMPLOYER

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE



CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

SEPTEMBER 1972

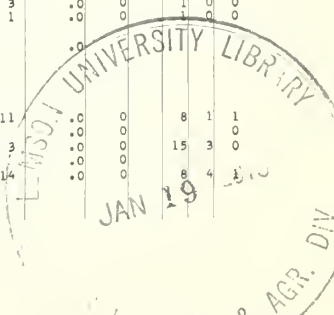
Volume 68 No. 9

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature										Precipitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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See Reference Notes Following Station Index

SPECIAL WEATHER SUMMARY ON PAGE 109



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
SEPTEMBER 1972

Continued

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										50° or Above	32° or Below	32° or Below	0° or Below										
KEAAU 92	82.7	66.8	74.8	- .1	88	14	62	6		0	0	0	0	6.06	- 2.99	1.34	4	.0	0		13	4	1
KEALAKEKUA 26.2	80.0M	64.5	72.3M		83	26+	62	9+		0	0	0	0	5.64		1.58	5	.0	0		8	6	2
KONA (KAILUA) 68.3	86.4M	71.6M	79.0M		90	26	69	5		1	0	0	0	2.67		1.89	5	.0	0		2	1	
KUKUIHAELE HIC 199														3.21	.42	1.62	11	.0	0		7	1	1
KULANI CAMP 79	66.4	49.5	58.0		78	4	45	6		0	0	0	0	3.32		.80	11	.0	0		10	2	0
PAHALA 21		M	M	M	84	18	61	11		0	0	0	0	4.15				.0	0				
POHAKULOA 107														1.95				.0	0				
PUAKO 95.1					90	26+	68	26+		2	0	0	0	.95		.50	2	.0	0		2	1	0
PUU WAAWAA 94.1														.91	- 1.42	.34	1	.0	0		3	0	0
UMIKOA 118														.82	- 1.34	.43	11	.0	0		2	0	0
WAIKOA SCO 88.2														6.38		1.24	4	.0	0		19	2	1
ISLAND			72.2											3.43				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 94° ON THE 15TH AT WAIALUA 847, OAHU

LOWEST TEMPERATURE: 34° ON THE 20 AT HALEAKALA SUMMIT 338.4, MAUI

GREATEST TOTAL PRECIPITATION: 21.43 INCHES AT MOUNT WAIKOLE 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 2 STATIONS

GREATEST ONE-DAY PRECIPITATION: 4.75 INCHES ON THE 5TH AT WAIKOLU 540, MOLOKAI

SPECIAL WEATHER SUMMARY

September was mild and uneventful except for a brief threat of local flooding on Oahu on the 1st, a few days of volcanic haze during mid-month, and the formation of a tropical storm far to the south near the end of the month.

On the afternoon of the 1st, an intense thunderstorm deluged Central Oahu between the Koolau and Waianae Mountains with almost 3 inches of rain in 3 hours or less. Gages at Hokuloa, Leilehua, Mount Kaala, and Wahiawa Dam recorded 1-hour amounts of 1.5, 1.6, 2.0, and 2.2 inches, respectively. Three teen-age boys, catching frogs in an almost dry drainage canal near Pearl City, were caught by the abruptly rising water, but managed to hold on to bridge beams until one of them could climb out and get help from a nearby fire station. By the time assistance arrived, the water in the canal had risen to a depth of about 5 feet.

On the 14th and 15th, the trade winds gave way to light southerly winds that carried volcanic smoke and haze northward along the island chain from eruptions of Kilauea Volcano. The smoke was reported on Kauai on the 16th.

On the 24th, Tropical Storm JUNE began its short-lived career in the very active Inter-tropical Convergence Zone about 600 miles south-

southwest of Hawaii Island -- the latest in a long series of tropical storms that have entered or formed within the Central Pacific during the past several months. JUNE then moved west-northwestward directly toward Johnston Island, only 5 weeks after Hurricane CELESTE had struck that island. But although JUNE passed within 50 miles of Johnston, the storm remained at only moderate strength and did no damage. Further details may be found in the September 1972 issue of Climatological Data, Pacific.

Rainfall for September continued uneven. A few gages on the leeward (or western) side of Kauai, Oahu, Maui, and Hawaii Island collected from twice to over six times their average for the month, mainly from the rains of the 1st, while most other areas were drier than normal.

Thus, rainfall was less than a fourth its monthly mean in the eastern end of Oahu and in Maui's central valley. Molokai was below average except at higher elevations, and Lanai above normal in the Kanepuu and Malauea areas, but deficient elsewhere. On Hawaii Island, rainfall was up to four times its September mean in the chronically dry Kohala District, slightly above normal at a few other isolated locations, but below average over most of the island. In North Kona, rainfall continued at under half of normal.

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National Weather Service Office
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DAILY PRECIPITATION

HAWAII
SEPTEMBER 1972

Station	Total	Day of Month																																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
ISLAND OF KAUAI																																			
ANAHOLA 1114	A	2.83				1.20	.05	.90	.03			.05							.50											.07	.03				
BAROES WOOD STA 985	A	4.40	.03			2.09	.04	.11	.02			.09							1.18											.27	.06				
EAST LAWA 934	A	4.53				2.10	.04	.25											.98											.19	.11				
ELEELE 927	A	3.86	T			1.26	.01	T	.24			.05							1.97											.03	.05				
HALAULA 1110	A	2.82				1.20	.03	.70	.05			.07							.60											.03	.09				
HALEMANAHO 1006	A	6.18	.03			2.71	.14	.76	.27			.07							1.14											.18	.02				
HUKIRO 945	A	2.47				.77		.30									.28	1.00																	
ILLILIULUA INTAKE 1050	A	8.60				2.89	.25	.55	.33			.74							1.65											.35	.05				
INTAKE WAINIMA PC 1086	A	8.21	1.51			4.00		.73				.16							.20											.06					
KANALUHE LUMULU 1075	A	2.76	.01	.61		.83	.05	.37	.28		.14			.02	.04		.22													.07		.04			
KANEHA RESERVOIR 1092	A	5.26				2.30	.12	1.30	.10			.60							.30											.17	.10				
KAPAA STABLES 1104	A	3.41				1.16	.09	.98	.05			.07							.73											.23					
KELAHA 1112	A	2.98				1.05	.02	1.05	.40			.03							.25											.13	.05				
KERAMA 944	A	2.00	.05			1.12	.02	.03	.04								.67		.20											.09	.05				
KILAUEA 1134	A	2.79	.03			1.10	.15	.70	.12		.20								.20																
KILAUEA FIELD 17 1135	A	4.69	.03			2.75	.15	.81	.07		.18								.20											.15	.14				
KILAUEA POINT 1133	A	2.11		.65		1.85	.21	.02											.04											.01	.10	.18			
KOLO 1033	A	1.07		.13		.26	.15	.09	.03										.41																
KOLOA 936	A	3.94				1.85	.14	.09	.03										.81											.06					
KOLOA MAUKA 994	A	7.16	.02			2.41	.14	.84	.18		.12								1.97											.03	.37	.05			
KOLOKO RES 1137	A	3.07	.03			1.54	.20	.20	.05		.27								.39											.13	.20				
KULIUA 935	A	3.19				1.50		.02											.96											.11	.24				
LIHUE VARIETY STA	A	3.05		.04		1.10	.08	.11	.33	.22	.06		.02						.68											.02	.05	.21			
LIHUE 1020	A	2.93				1.72	.16	.40	.13		.04								.01											.05	.05				
LIHUE WSO 1020.1 AR	//R	1.95	T	.01	.44	.72	.14	.47	.05	T									.03											.01	.06	T			
MAKAHUEA POINT 940.1	A	1.30		.03		.66	.07		.11		.05								.03											.16	.01	.03			
MAKANEI 965	A	3.48	.06	.13	.86		.06	.11		.05									1.92											.01		.02			
MAKA 1026	A	1.39				.28	.05	.02											.02																
MOHIHI UPPER CROSS 1083	A	1.74		.58	.91	.08	.08		.13										1.49																
MOLOAA 1145	A	1.76				1.04	.06	.18	.13				.06						.13											.07	.09				
MOU WAIKALEALE 1047	R	21.43	1.18	.12	2.01	2.72	1.10	1.50	.31	.43	.24								.75											.24	.24	.63	1.14	.51	.59
NIU RIDGE 1035	A	2.11		.20		.45	.12	.23	.12		.22								.75																
N WAILUA OITICH 1051	A	12.66				2.90	.56	.80	.76										2.50											.66	.16	.26	.66	.36	
RH WAINIMA 1115	A	4.52		2.15	.01	1.20	.16	.05	.12		.01								.26											.20	.12	.08			
PRINCEVILLE RANCH 1117	A	*				1.41	.18	1.05	.05		.26								.15											.14	.05				
RUEHU RIDGE 1040	A	4.78	.53	.20		.50	.14	.92	.59		.75								1.05																
RUHI 1013	A	4.09				1.91	.14	.45	.27										.73											.10	.12				
RESERVOIR S 1004	A	5.41				2.28	.08	.83	.11										1.21											.04					
WAILIWA 930	A	3.76	.03			1.57	T	.23											1.11																
WAILIWA MOUNTAIN 990	A	11.50																																	
WAILIHI LOWER 1054	A	6.79	.09	.10	2.19	.34	.11	.57	.19	.09	.02								1.32											.05	.05	.35	.20	.08	.03
WAILIHI UPPER 1052	A	7.46		.10	.08	2.62	.03	.23	.45	.31	.35	.15							.50											.08	.09	.25	.10	.25	.15
WAILIWA 943	A	1.55		.12		.57			.15	.03									.06																
WAILIWA KAI 1065	A	2.05				.81	.05	.15	.54		.10								.35																
WAILIWA 947	A	1.90	.20			.62		.12											.89																
WEST LAWA 931	A	3.04				1.66	.01	.01											.75											.04					
ISLAND OF OAHU																																			
BERETANIA RUMRING STA	A	1.11		.65	.04	.24													.02																
CAMPELL INN RK 762.5	A	1.40		1.33	T	.06													.01																
CAMP 84 807	A	2.25		1.86		.30			.01										.04																
CHURCH COLLEGE LAIE	A	1.96	.02	.23	.31	.21	.10												.02																
COCONUT ISLAND 840.1	A	.71	.02			.02	.18		.03	.08	.07			.21	.07	.09	.21		.10																
EWA PLANTATION 741	A	.57	.05																.23																
HELEMANI INTAKE 881	A	2.96				2.12		.03											.23																
HONOLULU 725.2	A	2.59		1.85		.53		.03						.49			.25		.11																
HONOLULU OBSERV 702.2	A	.58	.47	.02		.08			.01										.02																
HONOLULU WSO 703 AP	R	.92	.77	.02	.05	.02													T																
HONOLULU SUBSTA 704	R	.87	.32	.15	.20			.01											T																
H S P A EXP STA 707	A	1.12	T			.83													.04																
KAENA POINT 841.3	A	1.50		.16		.27													.02																
KAHANA 883	A	11.33				4.08													.34																
KAHUKU 912	A	1.43	.01	.40															.84																
KAILUA FIRE STA 791.3	A	*		.55	.06	.24</																													

DAILY PRECIPITATION

Continued

HAWAII
SEPTEMBER 1972

Station		Total	Day of Month																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ISLAND OF KAUAI																																	
A	KALAPAPA 563	.25		.03	.04																												
A	AUNAKAI 536	.10																															
A	KEONELELE PENS 551	.12		.12	*																												
A	KUALAPUU 534	.42	.03	*			.35																										
A	HAPULEHU 542	.96		.35	.11													.08	.05					.07				.09	.07	.03	.01	.07	
A	KAUNALOHA 511	1.09	.53	*	*		.05		.04				.01				*	*	.45														
A	MOLOKAI AP 524	.12	.10	T		T																										.01	.02
A	PUDOHUKU RANCH 542.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T		-	-	
A	NAIKOLU 540	5.33				4.75																					.58						
ISLAND OF LANAI																																	
A	KANEPUU 690	2.47	*	*	*	*	*	*	2.47																								
A	KAUMALAPAA HARBOR 658	.00																															
A	LANAI CITY 672	1.29	1.09	*	*		.20																										
A	LANAIALE 684	1.34	*	*	*	*	*		1.12	*	*	*	*	*	*.11	*	*	*	*	*	*	*	.02	*	*	*	*	*	*	*	.09	*	*
A	MAHANA 694	.76	.76																														
A	HALAUEA 676	1.12	*	*	*	*	*	*	1.12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
A	NAITAKEAKUA 685	1.09	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.09	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
ISLAND OF MAUI																																	
A	KUWAHI-252	1.20		1.20																													
A	HALEAKALA B E S 434	1.90	.80	.33	.07	.50	.01	*	*	*	*	*	*	*	*	*			.01	.04	.03										.07	.04	
A	HALEAKALA RANCH 432	1.52	1.28	.24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
A	HALEAKALA RS 338	.99	.11	.40	.05	.36	T		T																								
A	HALEAKALA SUMMIT 338.4	.68	.14	*	*	*	.52	.02																									
A	HAALIIMAILE 423	1.74	.82	*	*	*	.81																									.01	.04
A	HANAKAUPPOKO 485	1.22	.07	.06	.07	.25	T					.04								.06	.06	.13		.05	.06	.04		.29		.03	.19	.10	.01
A	MAHANA 694	3.66	1.67	.23	*	.21	*		.04	.12		.46	T	.05					.04	.20	.06										.02	.28	.03
A	MAHANA AIRPORT 355	3.71	1.44	T	.18	.26	.05	T		.08	.02	.05	.59	T				.05	.12	.02	.05	T		.07	.14	.06	T		.15	.05	.04	.35	
A	MAHAULI 281	3.02	1.12	.05	.15	.06	.04					.21							.30	.19	.03	.04						.08	.12	.09	.09	.18	
A	MOLAI CABIN 259.5	1.74	*	*	1.37	*	*	*	.30	.05			T	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.02	*	*	*	*	*
A	HONOKOHUA 480	.00																															
A	HONOKOHUA 493	2.77	1.60	*	*	.58	.05													.07	.07												
A	HONOHANU GULCH 341	1.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		.10		.03	.10	.12	1.00
A	KAANAPALI AIRPORT	.45	.40			.05																											
A	KAHOMA INTAKE 374	1.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.60
R	AHULUI WSO 398 AP	.02	.01	T	.01	T														T	T									T	T		
A	KAHOLA 436	2.44	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.48
A	KAILUA 446	5.68	.09	1.27	.12	.38	.02	.01				.03					.36	.06															
A	KAUULA INTAKE 375	3.85	*	*	*	*	3.75	*	*	*	*	*	*	*	*	*	.10			.01	.10	.21	.04	.05	.47	.45	.82		.16	.61	.21	.20	
A	KEAHUA 410	.38	.21	.14	T	.02	.01	*																									
A	KEANAP 346	5.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.20
A	KEAWAKAPU BEACH 260.2	.14	.05	.11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
A	KIHEI 311	*.02	.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
A	KIPAMULU 258	1.95	.20	.49															.34		.06		.12	.12				.28	.06	.28			
A	KULA HEIGHTS 323.2	.31	.17	.14					.01					.04																			.01
A	KULA SANATORIUM 267	.44	.05	.32	.01	T																											
A	LANAIA 251	.10	.08	.02																													
A	LAUNIUPOKO INTAKE 376	3.30																															3.30
A	LAUNIUPOKO VILLAGE 372	1.53	1.53																														
A	LUPU UPPER 442	3.50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.50
A	MAHINAHINA 466	1.73	1.73																														
A	NAKALELE - FLO 60-497	.62	*	*	*	.03	*	*	*	*	*	*	.48	*	*	*			.03	*	*	*	*	*	*	*		.08	*	*	*	*	
A	OLINDA 332	.70	.33	*	*	.18	T								.48	*															.01	T	*
A	OLDWALU 296	.39	.07			.32										.16	T	*		.03	T	.01											
A	PAAKAA 350	8.72		1.21	.34	1.25	.14	.15			.06	.20	.64	.23					.32	.21	.14	.10	.55	.56	.81	.03		.23	.75	.35	.45		
A	PAIA 406	.36	.01	.05	.11	.06	*	*	*	*	*	*	*	*	*	*	*	*	T		.01	.03		.01									
A	PALEIHEHU 259.2	7.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
A	POHAKA BRIDGE 307.2	.60	.60																														
A	POLIPOLI SPRINGS 267.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
A	PUDOHUKA 2 343	5.60	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.60
A	PUNENE 396	.04	.04																														
A	SPRECKELSVILLE 400.2	.08	.01	.02	.03	.01																											
A	TWIN GATES 261.3	.26	.26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
A	UKULELE 333	4.02	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.02
A	UKUMEHAME 301	1.15	1.00			.15					.05																						
A	ULUPALAKUA RANCH 250	1.71	.33	1.31																													.02
A	WAIAHULI 344	1.18	1.08			.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
A	WAIEHU CAMP 484	.43	T	.21	.06	*	*	*	*	*	*		.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.01	T	*
A	WAIEHEE VALLEY 482	.32	T	.03	.06	*	*	*	*	*	*		.15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.06	.02	*
A	WAIKAMOI 449	5.30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.30
A	WAIKAMOT OAM 336	5.86	.30	*	*	2.44	.07	T	.03	*	*		.15	.16	.01	.67	*		.13	.12	.17	.06	.11	.35	.05	.19	T	.13	.33	.26	.13		
A	WAIKAPU 390	1.24	1.20	*	*	*	*	*	*	*	*		.04																				
A	WAILUKU 386	.29	.19	*	*	.07							.03																				
A	WAIPOAI RANCH 256	1.16	1.12	.04																													
ISLAND OF HAWAII																																	
A	KAHUA UH1 75	.20	*	*	*	*	*	*	*	*	*	*	*	*	*</																		

See reference notes following Station Index

DAILY PRECIPITATION

HAWAII
SEPTEMBER 1972

Continued

Station	Total	Day of Month																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
KEALEKAPA 20.2	A	5.64	.61	.03	.58	1.58	.58	.58	.02	*	*	.10	T	1.26	*	*	T	.02	.15	.06	.01	.02	*	*	*	T	*	.04	*	T	*	
KEMENA 181.2	A	4.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KIDLEKA A C F 6	A	13.77	.03	.98	.25	1.51	1.28	.01	.24	.15	*	*	.06	*	2.27	1.83	*	.11	.13	.51	.56	.29	.17	.33	.33	.02	.23	.21	.55	1.00	.72	
KIPA 89.2	A	2.93	.27	*	*	.32	*	*	*	*	*	1.26	.01	*	*	*	*	.11	.13	.51	.56	.29	.17	.33	.33	.02	.23	.21	.55	1.00	.72	
KOWA MA'ILI 176	A	2.50	.05	.11	.22	.07	*	*	.08	*	T	.83	T	*	*	.85	*	*	.05	T	T	T	.01	*	.76	.01	*	.21	.20	.43	.01	
KOWA MISSION 175.1	A	5.43	3.35	*	*	.05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KOJANF LOWER 196	A	2.67	.60	*	.17	1.89	.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
KONA VILLAGE 93.8	A	3.19	.06	.37	1.60	*	*	*	*	.23	.10	*	*	*	*	*	*	*	.15	*	*	.02	.03	.06	.03	*	*	.07	.21	.12	.16	
KUKUHALE HIC 199	A	3.21	.05	*	.11	.30	*	*	*	*	.19	1.62	*	*	*	.85	*	*	.04	.02	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	
KUKUHALE HILL 206	A	2.89	.05	*	.11	.30	*	*	*	*	.19	1.62	*	*	*	.85	*	*	.04	.02	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	.08	
KULANI CAMP 79	A	3.32	.27	.16	.02	.50	.05	*	.18	*	*	.80	.01	*	3.25	*	2.05	*	.05	.40	.16	.11	.06	.05	.05	.05	.05	.05	.05	.05	.05	
KULANI MAUKA 76	A	4.25	T	*	.25	.75	*	*	*	1.02	*	*	*	*	3.25	*	2.05	*	.05	.40	.16	.11	.06	.05	.05	.05	.05	.05	.05	.05	.05	
KULANI SCHOOL SITE 78	A	6.64	* 2.07	*	.25	.75	*	*	*	1.02	*	*	*	*	3.25	*	2.05	*	.05	.40	.16	.11	.06	.05	.05	.05	.05	.05	.05	.05	.05	
LANIHAU 68.2	A	3.03	.38	.22	*	.28	.32	*	*	*	.04	1.13	*	*	*	*	.24	*	.12	.33	.13	.08	*	*	*	*	*	*	*	*	*	
MAKAMALAU 103	A	3.62	.59	2.96	*	3.20	*	*	*	*	.03	*	.01	T	.05	.46	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MAUKA 2	A	3.20	T	*	*	3.20	*	*	*	*	.03	*	.01	T	.05	.46	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MAUNA KEA D85 111.2	A	.06	T	*	*	3.20	*	*	*	*	.03	*	.01	T	.05	.46	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MAUNA LOA SLOPE D85	A	.06	T	*	*	3.20	*	*	*	*	.03	*	.01	T	.05	.46	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MIDDLE MAUNALOA 68.1	A	2.56	1.06	*	*	*	.00	*	*	.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MIDDLE PEN 147.1	A	4.22	*	4.22	*	*	*	*	*	.90	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MAUKA 18	A	1.80	*	*	*	*	.05	.17	.04	.10	*	*	*	*	*	*	*	.03	.20	.54	.39	.14	.22	.45	.10	.15	.16	.19	.48	.28	.63	
MOUNTAIN VIEW 91	A	6.10	.01	.19	.26	1.22	.05	.05	.05	.05	.17	.04	.10	T	T	.07	*	.03	.20	.54	.39	.14	.22	.45	.10	.15	.16	.19	.48	.28	.63	
NAALEHU 14	A	.96	.06	*	*	.47	.04	.05	.05	.05	.17	.04	.10	T	T	.07	*	.03	.20	.54	.39	.14	.22	.45	.10	.15	.16	.19	.48	.28	.63	
NAPDOPOC 28	A	7.66	*	*	*	4.90	*	*	*	*	.93	*	*	*	*	*	1.77	*	.03	.20	.54	.39	.14	.22	.45	.10	.15	.16	.19	.48	.28	.63
NIULI 179	A	3.41	1.02	*	.09	.92	.77	.01	.02	T	.06	.25	.03	.79	.03	.13	.22	.12	.02	.06	.06	.16	.08	.08	.16	.08	.08	.16	.08	.08	.16	
OKALA 223	A	3.76	.01	.09	.92	.77	.01	.02	T	.06	.25	.03	.79	.03	.13	.22	.12	.02	.06	.06	.16	.08	.08	.16	.08	.08	.16	.08	.08	.16	.08	
ORIHIMALE 2 24.1	A	2.20	.62	.15	.01	.02	.02	.20	.02	T	.06	.25	.03	.79	.03	.13	.22	.12	.02	.06	.06	.16	.08	.08	.16	.08	.08	.16	.08	.08	.16	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	
ORIHIMALE 2 24.1	A	4.86	*	*	*	.07	.62	*	*	1.56	*	*	*	*	.06	.06	.15	.13	.33	T	T	*	1.51	*	*	*	.08	T	T	.03	*	

DAILY TEMPERATURES

HAWAII
SEPTEMBER 1972

Station		Day of Month																																Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	74 55	75 59	71 53	72 59	71 56	71 53	68 49	71 47	74 48	74 51	74 44	73 45	72 44	77 59	74 57	75 60	74 51	76 56	73 58	74 56	75 54	74 55	71 50	74 52	76 49	76 50	73 52	72 51	74 57	74 54	73.4 52.8		
KILAUEA POINT 1133	MAX MIN	83 77	87 78	85 78	82 76	85 77	82 74	85 83	85 75	85 75	83 75	85 74	87 72	89 71	89 70	85 76	90 69	86 69	84 73	84 69	83 67	85 67	83 75	85 78	83 69	85 78	84 68	82 73	84 78	83 68	84 75	84 69	84.7 73.2	
LIHUE WSO 1020.1 AP	MAX MIN	84 74	82 77	84 74	81 74	81 75	82 71	79 71	80 71	81 71	81 71	81 70	84 67	86 70	88 71	85 74	84 76	85 70	85 74	84 76	86 73	85 71	84 71	85 77	85 74	86 72	86 74	85 76	86 72	85 74	85 76	85 75	83.8 73.7	
MAKAHUEA POINT 940.1	MAX MIN	84 74	87 75	86 76	86 74	84 75	85 71	85 71	84 71	85 71	85 71	85 70	85 70	89 70	89 71	87 74	90 76	87 70	85 74	86 76	86 73	85 71	86 71	88 75	81 71	87 74	88 72	86 76	87 72	86 74	81 72	85 74	86 75	85.8 72.7
MANA 1026	MAX MIN	89 70	90 71	89 68	90 69	40 68	87 68	86 67	87 68	89 69	89 67	89 68	89 68	87 68	89 69	88 71	88 68	87 69	86 68	88 67	87 69	88 68	81 68	81 67	80 67	82 68	83 69	82 68	80 69	83 70	82 68	82 69	86.2 58.4	
NIU RIDGE 1035	MAX MIN	84 65	85 66	83 63	84 65	85 65	83 64	82 63	83 63	85 62	84 63	85 62	84 63	85 63	85 64	84 62	84 66	85 65	86 65	85 64	86 65	86 65	85 66	84 65	83 66	85 65	86 65	87 65	83 65	85 64	84 65	84.4 64.3		
WAIAMI LOWER 1054	MAX MIN	85 65	85 69	85 65	83 64	81 66	81 63	81 60	83 61	83 60	83 60	84 60	84 60	84 61	86 62	87 66	85 66	85 67	84 69	87 60	85 60	84 65	80 63	80 61	79 65	81 67	83 63	83 67	83 69	83 68	79 65	83.2 64.2		
* * *																																		
ISLAND OF OAHU																																		
EWA PLANTATION 741	MAX MIN	89 72			89 68	87 67	86 65	88 66			89 66	89 67	88 67	89 67	86 70	88 70			88 72	87 72	89 71	87 71	87 70			89 69	87 71	87 71	87 72	87 72	87 72			
HONOLULU WSO 703 AP	MAX MIN	87 75	87 74	87 73	87 74	88 75	88 72	89 70	89 70	88 69	88 70	89 70	86 70	85 69	87 74	86 76	87 77	87 76	87 75	88 74	88 74	87 75	88 74	88 76	89 75	87 75	87 77	87 75	87 74	87 75	88 74	88 74	87.4 73.6	
HONOLULU SUBSTA 704	MAX MIN	84 76	84 75	82 74	82 75	82 74	84 73	83 72	83 72	83 72	84 73	84 73	82 72	81 72	84 75	83 77	84 76	83 75	82 75	83 74	83 74	82 74	85 74	84 76	85 76	84 74	83 75	82 76	83 73	84 76	84 75	83.2 74.3		
KAHUKU 912	MAX MIN	88 72	87 74	88 76	88 77	88 77	88 76	88 77	88 77	85 77	87 76	85 71	85 71	88 78	88 77	88 78	88 77	86 78	86 75	86 75	86 78	86 75	85 72	86 74	88 77	87 76	87 75	87 76	87 75	87 76	85 77	86.7 75.4		
KANEOME MAUKA 781	MAX MIN	87 75	86 74	84 72	82 73	83 70	85 69	84 70	83 69	85 69	85 70	84 69	84 71	85 69	86 71	82 72	86 75	84 74	83 75	83 70	84 71	83 72	85 73	83 76	85 74	86 72	83 74	86 72	84 73	84 74	84 72	84.2 72.0		
LUALUALEI 804	MAX MIN	92 69	92 72	90 72	89 74	90 73	84 68	87 65	86 64	84 68	89 64	91 70	89 66	89 65	90 72	92 73	86 70	92 76	90 70	90 72	92 74	91 70	90 84	84 71	90 84	91 72	90 70	91 75	90 70	91 73	90 75	89.3 70.6		
MAKAPUU POINT 724	MAX MIN	87 73	82 72	82 71	80 68	77 75	81 74	80 70	78 76	79 77	82 73	82 73	81 70	78 76	79 72	86 77	79 76	79 77	78 76	81 70	77 75	80 74	77 74	78 75	81 71	81 70	78 75	78 75	85 70	78 75	78 75	80.1 73.4		
OPAUELA 870	MAX MIN	84 66	84 71	84 70	81 72	75 60	79 61	82 60	82 63	82 64	80 65	82 70	82 61	85 63	85 68	80 75	82 73	88 72	80 65	80 64	79 65	79 64	84 66	80 66	80 66	84 69	80 66	79 65	72 64	75 64	79 66	80.8 66.2		
PRI WAHIAWA 820.2	MAX MIN	86 68	88 72	82 68	81 74	90 65	84 62	85 62	86 63	84 62	83 63	86 63	86 63	87 62	87 63	88 65	87 67	92 70	90 68	84 67	85 68	86 67	85 68	86 68	88 68	89 68	86 68	86 68	86 68	84 62	85 67	86.1 66.1		
WAIALEE 896.3	MAX MIN	87 74	88 72	87 71	85 71	85 73	84 68	86 69	87 70	86 71	87 73	86 71	86 70	88 70	87 75	88 73	88 74	87 75	86 72	86 72	86 72	85 72	86 74	86 73	87 75	87 75	86 74	86 75	85 72	86 71	86 71	86.2 72.2		
WAIALUA 847	MAX MIN	86 69	86 72	87 71	87 70	85 68	86 63	88 63	88 62	86 64	89 64	86 65	88 65	85 63	90 69	94 70	88 73	89 73	87 71	85 64	86 67	87 65	89 69	87 67	89 70	90 65	89 68	87 67	88 67	88 71	88 71	87.5 67.4		
WAIKIKI 717.2	MAX MIN	89 74	88 71	87 72	86 72	86 71	87 67	86 67	87 67	87 67	88 68	88 68	88 68	87 77	87 72	89 79	88 73	89 74	87 73	88 74	87 73	88 72	87 72	88 73	87 73	87 73	88 73	87 73	87 71	86 72	86 72	87.3 71.1		
WAIMANALO EXP FARM	MAX MIN	87 74	88 75	85 71	83 71	50 72	85 69	85 68	85 68	85 69	86 68	85 71	86 69	85 68	88 69	89 71	92 73	87 75	85 74	86 75	85 75	85 75	85 73	85 75	86 75	85 72	85 75	85 73	85 71	85 74	85 74	84.6 93.7		
* * *																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	83 70	80 73	83 76	83 72	83 71	84 74	77 72	83 74	83 69	84 72	85 70	83 70	85 72	84 73	86 70	85 70	87 77	83 72	84 73	83 77	85 71	85 74	83 76	83 76	85 68	86 71	85 71	83 74	83 70	84 75	83.7 72.4		
* * *																																		
ISLAND OF LANAI																																		
LANAI CITY 672	MAX MIN	79 68			80 69	77 67	77 67	78 66			78 63	78 66	82 66	83 64	82 65		83 64	78 61	80 61	78 61	80 61	80 61	80 61			79 63	85 64	78 66	78 65	78 66	78 66			
* * *																																		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	65 49	62 49	64 44	64 48	63 42	65 40	60 37	60 42	63 44	63 47	66 45	67 47	68 52	62 44	65 46	66 49	69 50	70 51	66 45	65 40	63 39	63 40	61 39	64 41	64 47	71 48	73 45	65 49	62 45	63 38	64.7 44.7		
HALEAKALA SUMMIT 338.4	MAX MIN	53 44	52 34	53 36	48 40	56 39	55 38	50 40	56 41	58 44	56 44	61 44	63 44	59 43	56 42	53 46	58 40	55 43	51 47	62 44	65 46	61 47	62 46	65 44	64 47	64 46	62 45	56 44	54 46	59 43	57.8 43.0			
HANA AIRPORT 355	MAX MIN	82 70	84 69	84 68	84 68	84 64	85 66	85 64	84 67	84 66	85 69	84 65	84 65	86 64	86 70	85 73	86 72	85 66	85 66	86 65	85 64	86 70	84 69	84 68	86 66	85 65	87 71	85 70	87 71	86 68	85.0 67.8			
KAANAPALI AIRPORT	MAX MIN	85 75	83 71	85 71	84 74	84 68	85 67	83 68	83 67	85 69	86 70	85 69	87 69	84 72	84 73	87 70	84 73	87 71	85 68	86 69	85 68	86 73	84 72	85 72	86 72	85 70	87 68	84 73	85 73	86 67	86 67	84.8 69.9		
KAHULUI WSO 398 AP	MAX MIN	87 74	87 69	87 72	87 75	87 71	87 62	85 61	86 62	87 67	87 67	87 72	88 65	89 65	90 68	90 67	91 68	89 68	88 67	89 70	88 68	89 68	89 68	90 68	91 69	91 68	93 68	88 72	89 70	89 64	89 64	88.5 68.6		
KAILUA 446	MAX MIN	82 70	77 68	78 70	79 70	80 68	81 66	80 65	80 66	81 67	81 67	81 66	78 66	81 67	83 68	83 68	80 62	80 69	80 6															

DAILY TEMPERATURES

HAWAII
SEPTEMBER 1972

Continued

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX MIN	75 65	73 64	74 59	74 60	76 57	74 56	72 57	71 58	75 57	75 58	72 60	73 61	77 60	76 61	76 62	78 62	76 60	75 60	76 58	77 57	75 58	74 60	72 61	75 60	77 58	76 59	72 60	74 60	76 58	76 58	74.7 59.5	
LAHAINA 361	MAX MIN	87 71	88 68	88 68	89 69	88 66	87 65	87 65	88 65	89 65	90 65	90 66	89 66	88 68	89 67	90 67	91 70	91 68	90 68	89 67	89 66	89 65	89 66	88 66	90 66	88 66	88 67	88 67	90 68	89 66	89 65	88.8 66.8	
WAILUKU 386	MAX MIN	83 72				85 69	82 71	82 69	81 70				84 70	82 69	85 69	85 70	86 70			87 71	83 72	83 72	83 72	83 73			86 72	85 73	84 72	83 73	83 73		
* * *																																	
ISLAND OF HAWAII																																	
HA'INA 214	MAX MIN	85 73	80 69	82 68	82 69	80 66	83 66	83 68	80 68	82 68	83 69	79 69	82 66	84 63	85 70	86 69	85 69	83 72	83 69	83 69	83 68	82 68	83 68	82 69	82 69	84 68	84 69	83 69	82 69	82 65	82 65	82.7 68.6	
HAWAII VOLCNS NP HC 56	MAX MIN	67 58		71 53	73 57	66 51	68 49	68 50	69 55	70 54	72 54	75 59	76 52	74 52	76 57	77 57	73 56	73 58	73 55	67 55	78 55	70 53	68 52	71 56	69 55	72 56	72 55	70 58	69 56	70 54	65 54	71.2 55.1	
HIL0 WSO 87 AP	MAX MIN	87 72	83 69	84 67	80 68	84 66	83 64	83 65	82 66	83 67	86 70	85 68	88 67	88 69	90 69	88 70	84 68	84 69	85 68	83 67	81 68	83 67	86 71	84 68	84 68	85 68	84 71	83 69	82 67	83 67	84.4 68.3		
KAINALIU 73.2	MAX MIN	74 66	77 64	79 63	80 65	79 65	78 61	73 62	77 62	77 62	79 64	81 64	79 65	78 64	80 65	80 65	80 63	80 63	78 63	79 63	78 63	80 63	80 63	80 63	81 64	82 65	80 63	81 63	82 64	80 65	79.1 63.8		
KAMUELA 192.2	MAX MIN	80 64	76 60	74 62	73 62	70 60	74 60	75 59	76 60	74 59	75 61	77 61	78 59	81 52	80 55	80 53	83 56	76 60	74 58	75 60	75 60	78 60	78 60	80 60	80 60	78 60	74 61	75 62	72 60	74 60	76.2 59.6		
KEAAU 92	MAX MIN	86 71	84 68	82 66	82 68	79 64	81 62	82 66	82 65	81 65	82 66	83 65	84 65	85 65	86 69	87 65	85 68	82 68	82 66	80 66	82 66	80 66	83 65	83 65	82 65	83 65	81 66	81 66	81 66	80 66	82.7 66.8		
KEALAKEKUA 26.2	MAX MIN	75 65	77 64	79 63	80 65	80 65	79 62	74 62	77 62	77 62	79 64	83 66	80 66	78 66	82 65	80 65	81 65	82 65	81 65	78 65	80 65	80 65	81 65	81 65	83 66	83 65	81 65	82 65	82 65	81 65	80.0 64.5		
KOHALA MISSION 175.1	MAX MIN	84 73	84 71	82 67	80 67	80 68	82 68	82 65	83 66	82 69	83 67	83 70	84 69	87 67	86 68	86 68	85 70	82 68	82 69	82 71	83 69	83 69	83 69	84 69	86 69	83 70	84 71	83 69	81 69	81 68	81 67	82.9 68.8	
KONA (KAILUA) 68.3	MAX MIN	82 73			86 70	86 69	86 72	83 70	85 70			87 71	86 73	87 73	87 72	87 74	87 74			88 72	87 72	86 71	89 70	86 70			87 71	90 72	87 71	89 73	82.9 71.6		
KULANI CAMP 79	MAX MIN	70 56	64 51	65 49	78 55	62 48	62 45	63 49	63 49	63 46	65 50	69 49	70 48	72 47	72 49	71 48	73 49	69 49	67 52	61 51	64 47	62 46	65 51	64 46	66 54	67 53	67 53	67 50	65 52	60 51	66.4 49.5		
MAUNA LOA SLOPE OBS	MAX MIN	51 38	53 37	55 37	51 37	53 36	54 38	52 40	54 39	54 38	53 38	54 36	54 37	53 38	54 38	54 38	54 37	55 36	54 38	57 38	57 39	58 39	56 38	57 40	56 40	59 39	60 41	58 41	54 38	52 35	54.8 38.1		
MOUNTAIN VIEW 91	MAX MIN	79 68	79 59	79 59	79 59	79 59	77 59	76 59	77 59	80 59	80 59	80 59	82 59	83 61	83 64	85 63	85 63	85 63	75 63	79 63	76 60	73 60	78 60	78 60	78 60	77 63	77 64	75 63	76 64	79 61	79.1 61.3		
NAALEHU 14	MAX MIN	81 71			82 65	81 67	81 68	80 67			82 64	82 69	84 71	83 72	85 72			84 69	82 69	81 69	83 68	79 68			82 68	82 68	82 68	81 68	82 68	81 69			
OOKALA 223	MAX MIN	85 73	82 71	82 63	82 64	80 67	80 67	86 64	80 66	80 68	81 69	78 69	81 68	82 68	83 69	83 69	82 70	80 71	80 70	82 68	82 68	82 68	80 68	80 68	84 70	84 70	84 72	83 71	83 69	81 69	81 69	81.8 68.6	
OPIHIKALE 2 24.1	MAX MIN	79 67	81 62	76 63	82 64	79 65	75 62	76 62	80 62	79 62	82 63	78 64	78 64	83 63	82 66	81 64	81 64	79 64	73 62	81 62	78 62	83 62	82 62	83 62	82 62	82 62	80 62	82 62	77 61	81 62	79.9 63.9		
PAHALA 21	MAX MIN	77 69			81 63	81 62	79 68	80 64			83 61	83 64	81 65	81 68	83 68			84 66	81 66	82 66	82 63				82 62	82 65	78 66	77 64	83 66				
PUAKU 95.1	MAX MIN	88 75	81 70	88 72	88 73	88 71	87 72	86 69	88 69	88 69	87 68	89 71	87 70	87 68	86 70	87 71	88 73	89 74	89 74	88 73	88 69	88 69	88 68	88 68	88 68	90 68	90 68	87 72	87 72	88 69	87.6 70.5		
UPOLU POINT USCG 159.2	MAX MIN	84 75	87 74	83 69	82 71	83 70	83 71	84 71	85 75	85 72	85 72	86 74	88 73	87 75	89 75	89 75	84 72	82 73	86 71	85 72	86 71	86 71	85 72	82 71	87 73	86 74	87 71	84 71	83 70	86 71	85.2 72.1		

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP WIND MAX MIN	.34 77 94 71	.32 126 83 74	.22 185 93 70	- 280 90 71	.38 215 88 70	.28 155 91 68	.46 98 89 67	.11 75 91 68	.21 94 92 66	.40 108 91 67	.45 104 92 67	.40 95 90 65	.17 75 93 65	.26 81 90 66	.35 100 91 67	.05 55 85 70	.18 141 90 72	.43 222 92 72	.44 231 90 70	.33 241 86 70	.39 187 91 70	.39 167 90 70	.35 140 92 71	.30 167 89 72	.31 160 90 72	.32 136 93 72	.38 200 90 71	.32 236 88 71	.33 225 89 71	.26 200 90 71	9.448 4576 90.1 69.6	
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP WIND MAX MIN	.30 19 97 70	.21 20 95 70	.33 34 94 67	.32 45 91 67	.36 36 92 66	.30 25 91 65	.30 30 88 64	.21 21 88 64	.25 21 88 63	.29 22 90 63	.27 29 90 65	.18 37 92 67	.30 40 93 66	.36 28 94 68	.31 28 95 70	.25 23 94 71	.36 40 94 67	.32 34 96 67	.33 38 96 66	.42 42 91 66	.40 29 89 66	.31 26 86 66	.25 25 86 66	.27 26 87 66	.28 25 87 65	.30 28 92 66	.35 31 92 63	.30 37 90 67	.37 43 92 66	.42 32 90 64	9.22 907 90.9 66.2	

See Reference Notes Following Station Index

HAWAII
SEPTEMBER 1972

1 DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU: 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3630, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "MONTHLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME. Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- * No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index. No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.

++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for date of measurement. These gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording page.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

C In Special Column of Station Index Indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Monthly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Monthly Precipitation Data" bulletin.

MO Cage read once monthly, usually on the last day.

(x) Gage readings at periods varying from a few weeks to several months.

5 Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the

June issue of this publication

J "Supplemental Data" table

SS Observation time is near sun.

VAR Observation time in variable.

*1 Gage read weekly or irregularly only.

WM Gage road weekly and last day of month.

* Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

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I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801

William H. Haggard
Director, National Climatic Center

USCOMM-NOAA-ASHEVILLE, N. C. 1473-890

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CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

OCTOBER 1972

Volume 68 No. 10

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature										Precipitation													
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days			
											Max.	Min.	30° or Less	31° or More					Total	Max. Depth on Ground	Date	10 or More	50 or More	100 or More	
* * *																									
ISLAND OF KAUAI																									
ANAHOLA 1114	A	72.1	53.1	62.6		75	23+	46	1		0	0	0	0	7.16	2.24			.0	0			5	3	2
KANALOHULU 1075															5.55		2.46	30	.0	0					
KAPAA STABLES 1104	A														7.46				.0	0					
KILAUEA FIELD 17 1135	A														8.55	1.48			.0	0					
KILAUEA POINT 1133		83.2		M		89	10				0	0	0	0	5.18		1.48	7	.0	0			10	3	2
KOLA 936	A														7.71	2.40			.0	0					
LIHUE WSD 1020.1 AP	//R	83.0	73.4	78.2	- 1.3	86	9	68	30		0	0	0	0	6.07	2.04	2.18	28	.0	0			9	3	2
MANA 1026		81.9	68.4	75.2	- 1.8	85	17	60	1		0	0	0	0	6.42	4.37	2.52	12	.0	0			6	4	3
N WAILUA OITCH 1051	A														18.61				.0	0					
PH WAINIMA 1115															6.83	- 1.41	3.18	4	.0	0			6	4	2
PUEHU RIDGE 1040															6.76		2.56	30	.0	0			8	5	2
WAHIAWA 930	A														9.97	6.95			.0	0					
WAIAMI LOWER 1054		82.0	65.0	73.5		87	17+	60	14+		0	0	0	0	11.43		2.78	4	.0	0			15	6	3
WAIWEA 947															5.36	3.45	1.66	4	.0	0			7	4	2
ISLAND				72.4											8.08				.0	0					
* * *																									
ISLAND OF OAHU																									
HONOLULU OBSERV 702.2	R	86.1	72.5	79.3	1.1	89	16+	68	29+		0	0	0	0	2.14		1.42	29	.0	0			2	2	1
HONOLULU WSD 703 AP															2.39	.55	.99	28	.0	0			4	2	0
KAHUKU 912	A	84.8	74.6	79.7	2.4	88	8	65	29		0	0	0	0	3.47	- .69	2.05	29	.0	0			6	1	1
KANEHE MAUKA 781		83.6	71.0	77.3	1.2	89	14	65	29		0	0	0	0	3.24	- 2.51	1.30	29	.0	0			7	2	1
KOOLA OAM 833	A														6.41	- 1.39	2.30	29	.0	0			2	2	
LUALUALEI 804	A	89.1	69.4	79.3		96	5	60	18		13	0	0	0	3.98				.0	0					
MAKAPUU POINT 724		80.3	71.8	76.1		86	14	68	31+		0	0	0	0	2.09	- .91	1.13	29	.0	0			3	2	1
NUUANU RES 4 783															7.90	- 1.03	3.24	3	.0	0			9	5	3
OPAEULA 870	A	80.4	64.1	72.3	- .1	88	15	59	13		0	0	0	0	5.36	.51			.0	0					
PAOLO VALLEY 718	R														8.72	- 2.11	3.36	3	.0	0			10	5	4
PRI WAHIAWA 820.2	A	85.4	64.6	75.0		91	16+	58	1		4	0	0	0	4.40				.0	0					
WAHIAWA OAM 863	A														5.95				.0	0					
WAIHOLE 837															9.37	- 2.71	3.38	4	.0	0					
WATALEE 896.3		85.7M	71.7M	78.7M		89	16	67	29		0	0	0	0	3.63		2.13	29	.0	0			5	1	1
WATALUA 847	A	86.4	66.2	76.3	.9	90	16	61	25		1	0	0	0	3.79	1.10	2.47	29	.0	0			4	2	1
WAIKIKI 717.2		86.8	69.9	78.4		91	16+	65	29+		3	0	0	0	2.11		1.14	29	.0	0			4	1	1
WAIMANALO EXP FARM		85.0	71.8	78.4		95	14	65	29		1	0	0	0	2.96		1.62	29	.0	0			6	2	1
WAIKAPU 750	A														2.71	.37			.0	0					
ISLAND				77.3											4.48				.0	0					
* * *																									
ISLAND OF MOLOKAI																									
KUALAPUU 534	A														2.70				.0	0					
MAPULEHU 542															2.31	- 1.10	.78	28	.0	0			6	1	0
MAUNALOA 511	A														2.21	- .16			.0	0					
MOLOKAI AP 524		83.1	71.2	77.2		87	18	65	7		0	0	0	0	2.07		1.48	29	.0	0			4	1	1
ISLAND				77.2											2.32				.0	0					
* * *																									
ISLAND OF LANAI																									
LANAI CITY 672	A	78.4M	62.9M	70.7M	.0	83	16	60	24+		0	0	0	0	2.12	- .83			.0	0					
ISLAND				70.7											2.12				.0	0					
* * *																									
ISLAND OF MAUI																									
HALEAKALA 8 E S 434	A	64.3	45.2	54.8		69	17	40	24+		0	0	0	0	4.63	.34	2.34	4	.0	0					
HALEAKALA RS 338		84.6	68.1	76.4		87	31+	65	15		0	0	0	0	2.07		1.23	4	.0	0					
HANA AIRPORT 355															4.92		1.16		.0	0					
HONOKOHUA 493	A	84.4M	69.2M	76.8M		88	15	65	2		0	0	0	0	2.46	- .22			.0	0			3	1	
KAANAPALI AIRPORT															1.11		.59	29	.0	0					
KAHULUI WSD 398 AP	R	87.8	68.3	78.1	.8	92	31	62	2		7	0	0	0	1.00	.13	3.65	30	.0	0			3	1	0
KAILUA 446		78.6	67.5	73.1	.4	81	15	65	9+		0	0	0	0	10.80	1.48	3.65	30	.0	0			12	6	4
KEANAE 346	A														16.70	1.35			.0	0					
KIPAMULU 258															4.97	- 3.33			.0	0			10	4	1
KULA SANATORIUM 267		75.0	59.6	67.3	1.1	78	25+	56	20		0	0	0	0	.43	- 1.83			.0	0					
LAHAINA 361		88.2	66.6	77.4		90	31+	64	29		5	0	0	0	.94	- .06	.58	30	.0	0			3	1	0
PAIA 406															1.82	- .34	.09	4	.0	0			3	1	0
WAILUKU 386	A	83.6M	70.3M	77.0M	.0	89	16	65	30		0	0	0	0	1.26	- .60			.0	0					
ISLAND				72.6											4.09				.0	0					
* * *																									
ISLAND OF HAWAII																									
HAINE 214		82.4	68.1	75.3	1.3	85	31+	65	18+		0	0	0	0	3.18	- 2.07	.54	23+	.0	0			2	0	
HAWAII VOLCONS NP HQ 54		71.4	55.1	63.3	.4	79	25	48	12		0	0	0	0	5.92	- .96	1.23	24	.0	0			10	5	1
HILO WSD 87 AP	R	83.9	68.0	76.0	.9	91	13	64	29		1	0	0	0	9.52	- 1.28	2.69	3	.0	0			15	6	2
HUEHUE 92.1	A														2.34	- 1.25			.0	0					
KAINALIU 73.2		79.6	63.9	71.8		86	15	62	26+		0	0	0	0	6.59	.39	2.27	2	.0	0			4	3	3

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
OCTOBER 1972

Continued

Station		Temperature											Precipitation																
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
											Max.		Min.							Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											50° or Above	32° or Below	32° or Below	32° or Below	0° or Below														
KEAAU 92		82.1	66.6	74.4	.0	88	14	63	29		0	0	0	0	10.43	- 1.95	4.02	4		.0	0		15	6	1				
KEALAKEUA 26.2		80.7	64.4	72.6		86	14	62	26+		0	0	0	0	4.93		2.34	18		.0	0		6	3	1				
KONA (KAILUA) 68.3	A	87.1M	71.3M	79.2M		89	16+	69	31+		0	0	0	0	.43		.15	31		.0	0		1	0	0				
KUKUIMAELE HIC 199															2.67	- 3.27	.75	3		.0	0		10	1	0				
KULANI CAMP 79		66.2M	49.4M	57.8M		75	14	42	29		0	0	0	0	5.31		1.12	24		.0	0		11	5	1				
PAHALA 21	A	81.7M	64.2M	73.0M		87	31	62	26+		0	0	0	0	5.91					.0	0								
POHAKULOA 107	A														1.59					.0	0								
PUAKO 95.1	A	86.2	70.4	78.3		89	16	66	13		0	0	0	0	1.13		1.07	31		.0	0		1	1	1				
PUU WAAWAA 94.1	A														2.03	- .85	1.11	31		.0	0		2	2	1				
UMIKOA 118															2.18	- 2.77	1.17	31		.0	0		1	1	1				
WAIKOA SCO 88.2															20.26		9.60	4		.0	0		19	9	4				
ISLAND				72.2											5.28					.0									

EXTREMES
TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 96° ON THE 5TH AT LUALUALEI 804, OAHU

LOWEST TEMPERATURE: 33° ON THE 29+ AT 2 STATIONS

GREATEST TOTAL PRECIPITATION: 27.79 INCHES AT MOUNT WAIKOA 1047, KAUAI

LEAST TOTAL PRECIPITATION: .00 AT 2 STATIONS

GREATEST ONE-DAY PRECIPITATION: 9.60 INCHES ON THE 4TH AT WAIKOA SCD 88.2, HAWAII

SPECIAL WEATHER SUMMARY

It was a relatively mild October, highlighted by a tropical cyclone, waterspouts off Maui and Kauai, hail on Mauna Kea and Mauna Loa, and the first cold front of the "winter" season.

The worst of the month's weather occurred on the morning of the 3d, when a tropical cyclone that had formed near 16° N 130° W on September 28, and travelled westward to about 150 miles south of Hawaii Island, set off thunder, lightning, and rain over the entire State. Thunderstorms were most active in the Hilo, Puna, and National Park areas of eastern Hawaii Island. At the latter location, the Volcano Observatory was put out of action when lightning struck some of its seismometers, while lightning and heavy rain disrupted telephone service from Laupahoehoe to Volcano and knocked out electricity in Hilo town, as well as transmission lines to eight outlying areas. Storm totals were greatest in Puna, where Kurtistown recorded 10.49 inches and Mountain View 8.10 inches over periods of 20 hours or so.

Peak 1-hour amounts appear to have ranged under 2 inches, except at Honomu Mauka and the Hilo Country Club, where they reached 2.70 and 3 inches, respectively. While the storm was not at all severe by Hawaiian standards, its effects, which included a number of small landslides and washouts, were sufficiently widespread and inconveniencing to induce the Mayor of Hawaii Island to declare a brief emergency.

Two waterspouts were sighted over Hawaiian waters during the month: on the 13th, about 4 miles north of Kahului, Maui, and on the 18th, east of Lihue, Kauai.

On the afternoon of the 14th, hail fell atop Mauna Loa and Mauna Kea on Hawaii Island.

On the 28th, the "winter's" first cold front brought widespread rain and cloudiness to Kauai and Oahu.

Rainfall for the month as a whole continued uneven over the State.

Kauai exceeded its October average nearly everywhere, and by two to over three times in the southwestern sections.

On Oahu, rainfall was moderately deficient in the Kahuku area and in about the southeastern fourth of the island, including Kaneohe and most of Honolulu.

On Molokai and Lanai, most gages recorded slightly less than normal.

Maui's rainfall was below normal in most areas except on the northern slopes of East Maui, with gages in Kula and along the southern coast of West Maui recording less than half their October average.

On Hawaii Island, rainfall was most deficient in the North Kona-Hualalai area, where monthly totals were well below half the October mean. Along the Kohala-Hamakua coast, which has been experiencing a prolonged dry spell, rainfall was again below normal. Most of the Hilo district had above its monthly average, although at Hilo Airport this was the sixth successive month of deficient rainfall.

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DAILY PRECIPITATION

HAWAII
OCTOBER 1972

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																		
ANAHOLA 1114	A	7.16	*	.09	1.80	.09						1.40	.15	.07						.04	.03	*	*	.10			.08	*	*	3.29	.02	*		
BRVDES=DOO STA 985	A	10.29	*	.22	1.25	.37		*	*	.01		.58	.32	.01						.38	.02	*	*	.03				*	*	7.10		*		
EAST LAWA 934	A	8.56	*	.46	.05	1.43	.34	.01	*	*	.07	.02	.11	.21						.08	T	*	*	.02	T			*	*	5.75	.03	*		
ELELEE 927	A	7.49	*	.16	1.80	.08						.07	.20	.07	T					.07		*	*	.05	T			*	*	5.10		*		
HALAULA 1110	A	7.51	*	.12	2.10	.15		*	*	.19		1.10	.20	.04						.10	.04	*	*	.05			.12	*	*	3.27	.03	*		
HALENANAH 1006	A	9.82	*	.35	.05	2.31	.38	.03	*	*	.08	.03	.48	.69	.07	*	*			.09	.18	*	*	.04	.08			*	*	4.56	.08	*		
HUKIPD 945	A	5.60	*		1.86	.14						.26	.79									*	*					.22	1.39	.94				
IKUULUA INTAKE 1050	A	18.35	*	.95	.10	2.78	.98	.03	*	*	1.65	.34	.41	.88					.11	*	.09	.09	*	*	.57	.16	.04	.04	1.09	*	*	5.59	.05	
INTAKE WAINIHA PC 1086	A	5.02	*	.25	*	2.10					*	.57		*	*							*	*									2.10	*	
KANALOHULUHU 1075	A	5.55	.01	.23		.62	.02		.09			.03	.44	.08			.02		.02		.03		*	*			.08	.07	1.35	2.46				
KANEHA RESERVOIR 1092	A	13.80	*	.45	.05	2.80	.80	.20	*	*	1.05	.45	1.00	2.20	.11					.20	.10	*	*	.10	.03	.05	.65	*	*	3.45	.11	*		
KAPAA STABLES 1104	A	7.46	*	.09		1.35	1.16	.27	*	*		.85	.34	.15						.06	.03	*	*	.06			.05	*	*	3.03	.02	*		
KALIA 1112	A	7.12	*	.07		2.50	.13		*	*	.04	.60	.10	.04						.04	.04	*	*	.17			.05	*	*	3.10	.04	*		
KEKAMA 944	A	5.75	*	.08		1.32	.14					.20	.63							.03		*	*					.15	1.53	1.87				
KILAUEA 1134	A	8.33	*	.36	.05	.45	.35	.10	*	*	.75	.02	.23	.50							.03		*	*		.07	.04	.25	*	*	2.88	.45	*	
KILAUEA FIELO 17 1135	A	8.55	*	.12	.04	.95	.40	.20	*	*	.30	.10	.27	1.33							.08		*	*		.03	.05	.05	.93	*	*	3.30	.40	
KILAUEA POINT 1133	A	5.18	*	.21	.19		.20	.06	1.48	.01		.31	.32							.13		.04				.01	.04	.85	1.18	.19		.17		
KOLO 1033	A	5.12	*	.06		.18	.03	.20				.50	1.16							.13		*	*				.05	1.03	1.78					
KOLOA 936	A	7.71	*	.42	.05	1.35	.14	.07	*	*	.05	.24	.08	.03	*	*				.09	.19	*	*	.05	.03	.03	.02	.07	*	*	5.07	.06		
KOLOA MAUKA 994	A	12.12	*	.73	.04	2.81	1.07	.02	*	*	.08	.05	.61	.48	.05	*	*	.08	.04			*	*			.02		*	*	5.61	.11	*		
KOLOKO RES 1137	A	8.35	*	.15	.08	.90	.26	.28	*	*	.95	.12	.35	2.00						.15		*	*	.04	.05	.16	*	*	2.57	.25	*	*		
KUJULUA 935	A	6.33	*	.07	.02	.77	.15	T	*	*	.01	.02	.12	.24						.02		*	*			.02	.01	.85	1.82	1.00	.12	*		
KUHUE VARIETY STA	A	9.42	.04	.08	.03	3.09	.20	.06	*	*	.11	.01	.36	1.08	.01			.18		.08	.12	.06	*	*							6.10	.02		
KUHUE 1020	A	7.41	*	.03		1.09	.12	.01	*	*	.47	.72	.66							.09	.13	*	*											
KUHUE W50 1020.1 AP	//R	6.07	.01		.04	.67	.01	.10	.04	T	T	.42	.19	.19				.01	.13	.07	T	T					.18	2.18	1.82			.01		
MAKAHUNA POINT 940.1	A	4.73		.02	.02	.40	.06		.02		.03	.19	.01									*	*					.31	3.23	.46		*		
MAKAWALI 905	A	7.43	.01	.03	2.85	.17					.14	.07	.42						.15			*	*				.83	1.97	.80					
MANA 1026	A	6.42		.03		.66	.03					.01	.22	2.52	.01					.05		*	*					.16	1.25	1.48		*		
MOHIMI UPR CPOSS 1083	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MOLLOA 1145	A	5.64	*	.19		.21	.09		*	*	.09		.33	1.75								*	*		.04	.08			*	*	2.64	.22	*	
MOUNT WATALEALE 1047	R	27.79	2.09	2.4	2.36	7.09	.16	.28	.24		.55	.08	.67	1.46					.47	.28	.24	.08	.24	.43	.87	.12	1.61	3.78	1.18	2.68	.16	.43		
NIU RIGGE 1035	A	5.92		.25		.50	.35					.15	.90							.10		*	*											
N. WAILUA OITCH 1014	A	18.61	*	.00	.10	3.20	1.40	.26	*	*	.60	1.10	.56	1.20	.26	*	*	.20		.36	.15	*	*	.40	.16	.20	.15	1.80			5.20	.70		
PH WAINIHA 1115	A	6.83		.02	.08	3.18	.44	.02	T			.45	.03							T	.05	*	*						.55	.01	.72	1.28	T	
PRINCEVILLE RANCH 1117	A	6.45		.12	.05	1.20	.16	.14				.21	.73	.10							.15	*	*			.12		1.51	.01	*	*	1.95	*	
PUEHU RIGGE 1040	A	6.76		.14		.90	.25					.58	.50							.17		*	*									1.66	2.56	
PUMI 1013	A	9.97	*	.36	.08	1.64	.28	.03	*	*	.19	.44	1.22	.03					.02	.19	.20	*	*	.02	.03						5.15	.09		
RESERVOIR 6 1004	A	10.25	*	.64		2.35	.59		*	*	.34	.63	.07						.03	.07	.10	*	*		.02						4.88	.19		
WAILUA 930	A	9.97	*	.06	T	1.52	.08	T	*	*	.11	.42	.04	*	*	*	*	*		.25		*	*			T						7.49	*	
WAILUA MOUNTAIN 990	A	17.75	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.75	*	
WAIHAI LOWER 1054	A	11.43	.13	.28	.20	2.78	.88	.03	.40	.07	.09	.24	.38	.64	.32	.12				.14	.09	*	*	.03	.09	.04	.14	.86	2.34	1.17	.07	*		
WAIHAI UPPER 1052	A	12.85	.23	.15	.05	2.75	.70	.10	.64	.28		.16	.05	.45	.03	.12				.40	.01	.35	.25	.09	.05	.05	.02	.10	2.00	2.39	1.41	.02	*	
WAIHANA 943	A	5.45	*	.20		2.45	.16	.02	*	*	.70	.31	.19							.01		*	*											
WAILUA KAI 1065	A	7.72	*	.40		1.66	.27		*	*	.70	.31	.19						.03	.08	*	*	.08	.03	.02						3.11	.08		
WAIWEE 947	A	5.36										.31	.54									*	*					.24	1.39	.95		*		
WEST LAWA 931	A	8.50	*	.06	.04	1.30	.10		*	*	.04	.23	.25								*	*		.01			*	*	6.30	T		*		
ISLAND OF OAHU																																		
BERETANIA PUMPING STA	A	2.35	.08		.65	.01					.05	.15							.01		*	*												
CAMPBELL INO PK 702.5	A	2.08	*	.10	*	.98					.11			*	*	*			.02		*	*												
CAMP 84 800	A	3.12	*	.10	*	.98					.11			*	*	*			.02		*	*												
CHURCH COLLEGE LAIE	A	2.00	.04	.21	.82	.21	.10	.03	.04	.07					.03	.09			.02	.03		*	*	.01	*	*								
COCODUT ISLAND 840.1	A	1.84	*	.10	.08	.19	.02		.20						.01						*	*												
EWA PLANTATION 741	A	2.64				.62															*	*												
HELEMANA INTAKE 881	A	6.45	*	.74	*		1.95	*	*	*	*	*	.44	*	*	*	*	*	*	*	*	*	.08	*	*							1.96	.02	
HOKULUA 725.2	A	4.71	*	*		1.58	.07	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*								2.93	*
HONOLULU OBSERV 702.2	A	2.14	.02			.66	.01												</															

DAILY PRECIPITATION

Continued

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Station		Total	Day of Month																															OCTOBER 1972	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
* * *																																			
ISLAND OF MOLOKAI																																			
A	KALAUAPAPA 563	2.30	.02																		.06		.02												
A	KANAKAKAI 536	1.28																																	
A	KEONELELE PENS 551	2.05																																	
A	KUALAPUU 534	2.70																																	
A	MAPELEHU 542	2.31	.06	.29	T	.19	.18			.04					*	*	.01		*	.01	*	*	.01												
A	KAUHALOA 511	2.21			.03	.19			*	*	.03	.09																							
A	MOLOKAI AP 524	2.07			T	.22	T																												
A	WUOHOKU RANCH 542.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
A	WIKIDLU 540	6.92		.58						2.27																	.19								
* * *																																			
ISLAND OF LANAI																																			
A	KANEPUU 690	1.37					*	*	*	*	*		.08																						
A	KUMALAPAU HARBOUR 658	.92																																	
A	LANAI CITY 672	2.12		T		.51	T				.03																								
A	LANAIHALE 684	1.98		*	*	*	.44	*	*	*	*		.12	*	*	*	*	*	*		.16														
A	HANAHUA 694	2.36		*	*	*	.29	*	*	*	*		.09																						
A	KALAUEA 676	.94					*	*	*	*	*		.05				*	*	*	.03															
A	NAIAKEAKUA 685	1.59	*	*	*	*	*	*	*	*	*		.05	*	*	.48				.03	*														
* * *																																			
ISLAND OF MAUI																																			
A	KUWAHI-252	1.05																																	
A	HALEAKALA B E S 434	4.03	.06		.72	2.34	.19		.10	.01					*	*	*	*	*	*	*		.08	.04											
A	HALEAKALA RANCH 432	2.23	*	*	*	1.84	*		*	*	*				.03	*	*	*	*	*	*	*													
A	HALEAKALA RS 338	2.07	.15	T	.39	1.23	T							.03	T	T																			

See reference notes following Station Index

DAILY PRECIPITATION

Continued

HAWAII
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		OCTOBER 1972																															
Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KEALAKEUA 20.2	4.93		.91				.06	.01			.10				T			.01	2.34	.88	.34										.06	.22	
KEMENA 181.2	A																																
KIOLAKAA A C F 6	6.55																															.55	
KIPA 89.2	A	21.35	1.75	.04	9.17	.05	.55	.30	.12	.39		.01	.04	.04	.62		.84	.13	.11	.09	.01	.01	2.06	1.22	1.31	.23	.27	1.80	.01		.10	.08	
KOHALA MAULILI 176	A	3.92		.06	.69	.75	.01	.06		.01				.25	.38		.17	.01					.85	.25	.01	.01	.21				.03	.17	
KOHALA MISSION 175.1		3.87	.08		.71	1.15	.01	.02	.01	T				.05	.28	.05	.02	.28	.03			T	.02	.60	.12	.21	T		.11	T		.01	.11
KOIAW LIDAR 196	A	3.35					.05							.45	.05		.45				.20	.02	.60	.12	.21	T		.11	T		.01	.11	
KONA KAILUA 68.3	A	.43									.05																					.15	
KONA VILLAGE 93.8	A	.65												.17			.10														.02	.26	
KUKAIUA 222		6.27		.32	.52	.01	.76	.07						.03			.33					.70	.83	1.38		.03	.08			.03	1.12	.06	
KUKUIHAELE HIC 199		2.67	.08	.03	.75	.15	.31	.18	.05	.02				.13			.10				.10	.41	.20	.15		.01					.01	.01	
KUKUIHAELE MILL 206	A	3.55	.03	.01	.73	.07	.01	.94						.17			.31						.74	.20							.07	.03	
KULANI CAMP 79	A	5.31	.55		.10			.27	.02	.19		.13				.29	.08	.15	.08			.67	.82	1.12	.05	.06	.62	.04			.07	.03	
KULANI MAUKA 76	A	.28	.05	.08	.03						.03					.05						.25										.07	.03
KULANI SCHOOL SITE 78	A	4.50						1.05							.60													2.60					
LANIHUA 68.2		2.49		.48													.56	.29	.48												.07	.10	
MAKAMALUA 103		.00																															
MAUKA 2	A	.06	T					.04									.02				T										.08	.35	
MAUNA KEA OBS 111.2	A	.75			.10	.08	.02					T	T	T	.12	T																	
MAUNA LOA SLOPE OBS		1.67		.05	.75											.30													.42			.15	
MIDDLE HOLUALOA 68.1	A	.97									.27							.20		.50													
MIDDLE PEN 147.1	A	.28																														.28	
MOAULA 18	A	3.40																														3.40	
MOUNTAIN VIEW 91	A	15.53	.57	.01	.04	8.10	.29	.05	.05	.29	.56	.22	.08	.02	.34		.45	.17	.08	.14	.02	1.10	.54	.93	.18	.14	.98	.03		.15			
NAALEHU 14	A	3.04		.23		.51	T	.08	.38		.57	.33	.10	.02	.18		.47	.03	.01	.02			T					.02			.09		
NAPOOPOO 28	A	3.38		.59								.07					.01																
NIULILI 179	A	4.87		.27	.65	1.57	.02	.06			.02			.04	.34		.44	.05					.70	.31						.13		.16	.11
OOKALA 223	A	7.20	.36	T	.36	.84	.02	.16	.12			.02	.08			.40	.08			T	T	.82	.47	1.06	.02	.18	.28				.11	.15	.78
OPHIHALE 2 24.1		2.68	1.04	.01		.01	.34	T		.04	T				.01	T	.01	.55	.05	.15	T	T					.01	T			.08	.08	.30
ORCHID LAND EST 91.5	A	9.43					5.32								1.52					.81								1.78					
PAAUHAU 217		3.15	.07		.47	.18	.15	.03						.01	.02	.02	.47					.42	.44	.63	.46					.39	.11	.09	
PAAULIO 221	A	4.65	T	.33	.33	T	.38	.10								.28						.42	.71	1.05	T					.63	.01		
PAHALA 21	A	5.91		.10	1.45	.28			1.26	.03	.19	.12		.08			2.26	.01													.08	.19	
PAHUA 5	A	9.07	.57	.01	.17	2.62	.44	.05	.04	.20	.39	.34	.11	.05	.95		.64	.09	.08	.04	.14	.01	.48	.24	.23	.35	.15	.51	.01		.10		
PAKAD 37	A	6.00																													.08	6.60	
PAPAIAU 144.1		15.00	1.46	.03	.07	5.32	.36	.16	.15	.02	.19	.17	.07	.41	.54		1.21	.12	.09		.03	.66	1.06	.51	.35	.32	1.53	.06	T	.07	.04		
PAPAIAU MAUKA 140.1		17.31	1.57	.03	.05	6.72	.13	.48	.45	.01	.22	.03	.03	.33	.33		.70	.26	.10	.10	.01		1.18	1.02	.57	.44	.50	1.77	.01		.08	.19	
PIIHONUA 89	A	25.80																												25.80			
POHAKULOA 107	A	1.59						.11																							1.48		
PUAKO 95.1	A	1.13	.02			T		T								.01															.03	1.07	
PUU KHE 120	A	1.86																														1.86	
PUU LAU 102.1	A	.48																														.48	
PUU LEHUA 73	A	.95																														.95	
PUU MALI 113	A	.72																														.72	
PUU OO 82	A	2.98	T		.55	.05	.08	.21	.01	.09	.02	T	.02	.38	.03	.06	.03	.02				.06	.39	.17	.21		.05	.42	.02		.11		
PUU WAHAA 94.1	A	2.03									T					.92																	
SADDLE ROAD 1 84	A	18.27					7.25							3.25							.62							7.15				1.11	
SOUTH POINT CORRAL 3	A	1.41							.87							.35							.10							.09			
UHIKOA 118	A	2.18	.03		.03	.37	.02	.23									.08						.10			.19					.04	1.17	
UPOLU POINT USCG 159.2	A	1.32			.41	.27	.02						.04	.13			.04					.06	.25	.05		.04		T			.01		
WAJAKEA SCO 88.2		20.24	.81	.03	.10	9.60	.07	.35	.75	1.84	.32	.24	.02	T	.72		.48	.12	.06		.03	.08	1.18	.78	.53	.27	.49	1.10		.12	.17		

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
							02	08	14	20									
HILLO WSD 87 AP	18	1.8	6.4	24	SE	13	90	82	71	88	3	11	9	4	1	1	29	30	7.0
HONOLULU WSD 703 AP	6	8.1	11.9	30	SE	30	75	70	56	69	9	4	2	2	0	0	17	67	5.6
KAHULUI WSD 398 AP	6	7.9	10.9	26	N	29+	86	78	58	77	5	3	2	1	0	0	11	76	4.4
LIHUE WSD 1020.1 AP	6	4.9	8.8	21	NE	04	87	82	73	84	5	7	6	1	1	1	21	53	6.5

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DAILY TEMPERATURES

HAWAII
OCTOBER 1972

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX MIN	74 58	72 58	74 59	77 63	75 59	74 59	73 60	74 61	75 62	74 60	75 58	76 58	78 59	78 63	75 62	78 62	76 59	78 59	75 57	74 56	76 57	76 58	76 59	75 57	78 58	75 58	74 59	72 61	75 62	70 63	74 64	75.0 59.6
LAHAINA 361	MAX MIN	89 67	89 65	89 68	89 69	89 67	90 66	88 65	89 66	90 68	89 68	88 68	89 66	87 68	87 66	89 68	90 69	89 68	88 66	87 66	90 65	89 65	89 66	89 66	89 65	89 65	88 65	88 67	89 67	72 64	87 69	90 67	88.2 66.6
KAILUKU 386	MAX MIN		83 71	82 72	79 72	82 72	82 68			85 68	84 71	85 68	84 68	85 73			89 70	86 70	85 71	84 72	82 72			83 71	83 72	83 70	82 70	82 70			85 65	85 71	83.6 70.3
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX MIN	82 69	82 69	83 71	83 71	82 69	83 66	82 66	82 68	82 68	83 67	84 68	83 65	82 68	85 69	85 70	85 69	81 67	83 65	82 66	83 69	82 67	82 69	81 68	81 68	80 66	81 68	81 69	82 69	84 67	79 70	85 69	82.4 68.1
HAWAII VOLCNS NP HO 54	MAX MIN	72 54	70 56	74 64	72 57	71 56	70 54	70 51	73 52	72 58	68 55	68 52	70 48	71 60	75 57	77 55	72 59	72 55	73 54	71 53	71 55	72 54	72 57	69 58	66 55	79 52	70 53	65 55	70 53	69 52	72 56	77 59	71.4 55.1
HILD 450 87 4P	MAX MIN	84 69	83 66	80 70	80 71	83 67	86 67	86 69	87 69	80 69	82 67	85 65	85 65	91 71	87 70	87 69	84 70	85 69	84 65	83 65	83 68	81 67	83 69	83 70	83 65	82 66	81 67	83 68	82 64	81 69	87 72	85 81	83.9 68.0
KAINALIU 73.2	MAX MIN	81 64	78 63	80 64	81 66	79 66	79 62	77 66	79 62	80 64	79 64	78 62	80 62	80 65	85 65	86 66	82 65	82 66	78 64	75 63	78 63	80 63	81 64	79 64	79 64	78 62	78 63	79 63	80 64	78 65	81 65	79.6 63.9	
KAMUELA 192.2	MAX MIN	75 60	75 61	74 60	78 61	74 60	75 54	78 53	79 55	75 58	76 57	78 53	79 53	80 54	85 57	80 58	82 62	76 60	78 59	75 60	73 57	74 60	74 61	73 60	73 58	74 58	74 60	80 53	78 56	75 58	83 62	76.7 58.3	
KEAAU 92	MAX MIN	81 66	82 67	83 66	78 69	79 68	81 66	83 66	83 69	83 66	78 68	81 66	82 66	84 67	88 67	86 68	85 69	81 68	83 65	82 65	82 66	82 66	80 66	82 69	79 65	81 65	81 65	81 66	80 63	84 64	85 68	82.1 66.6	
KEALAHEKUA 26.2	MAX MIN	81 65	78 64	80 64	83 66	82 67	80 64	79 66	82 65	82 65	78 64	80 62	81 66	86 66	84 68	83 65	82 65	80 64	76 62	81 64	79 64	81 63	82 64	82 64	81 63	81 63	81 62	80 63	80 64	75 66	80.7 64.4		
KOHALA MISSION 175.1	MAX MIN	81 68	82 69	82 71	81 71	81 70	80 66	81 66	82 70	82 70	81 67	82 64	82 65	85 70	83 69	83 68	81 68	82 68	81 69	82 69	82 69	82 68	79 68	81 68	79 69	80 69	80 67	80 67	83 69	77 67	83 67	81.4 68.2	
KONA (KAILUA) 68.3	MAX MIN		87 70	87 69	89 72	88 73	86 74				87 72	86 71	88 69	86 72			89 72	87 73	87 73	86 70	87 70			87 71	87 73	87 72	86 71				86 72	88 69	87.1 71.3
KULANI CAMP 79	MAX MIN	65 52	63 45	65 50	65 56	65 51		67 48	62 49	68 54	64 48	64 47	64 43	65 50	75 51	71 52	72 52	68 47	68 45	68 45	65 49	65 50	67 46	70 52	62 50	64 48	64 47	63 52	63 46	63 42	59 53	74 56	66.2 49.4
MAUNA LOA SLOPE OBS	MAX MIN	52 33	53 34	56 36	50 36	49 35	49 33	52 33	56 38	54 39	54 42	58 40	58 40	57 42	53 38	57 37	54 36	56 37	54 37	57 35	55 37	60 37	56 38	54 37	51 34	54 37	51 37	56 39	50 40	51 42	56 40	54.1 37.4	
MOUNTAIN VIEW 91	MAX MIN	79 61	79 61	80 63	73 63	74 64	76 60	80 60	80 60	80 60	75 62	75 61	78 60	76 63	85 64	85 64	85 64	76 63	79 60	78 60	79 61	77 61	77 61	76 63	77 60	74 60	72 62	79 62	79 62	84 62	84 64	78.2 61.6	
NAALEHU 14	MAX MIN		82 65	83 68	83 67	80 68	82 67			82 69	80 66	80 66	81 68	82 70			85 70	77 69	82 68	82 68			82 65	80 69	82 68	83 68	81 68			81 66	85 70	81.7 68.0	
OOKALA 223	MAX MIN	82 67	81 70	81 69	84 72	81 70	82 67	80 68	82 68	82 69	82 69	81 69	81 67	83 69	85 70	82 70	83 70	81 67	81 70	81 70	82 69	80 69	82 68	79 68	78 67	80 67	80 67	81 67	79 67	81 68	82 68	81.2 68.7	
OPIHIHALE 2 24.1	MAX MIN	77 62	79 61	83 60	82 66	78 62	76 62	79 61	81 63	79 64	78 63	78 60	79 60	89 63	81 64	81 65	79 68	78 67	74 65	78 61	77 61	79 61	80 60	80 60	78 60	77 60	79 60	81 62	76 64	78 60	80 63	79.1 62.3	
PAHALA 21	MAX MIN		82 62	84 64	81 66	81 66	82 68			83 64	80 65	79 63	80 62	82 63			86 67	76 65	81 64	80 62	84 63			85 63	78 68	82 64	82 62	81 65			81 64	87 67	81.7 64.2
PUAKO 95.1	MAX MIN	86 70	87 68	86 67	87 72	87 66	86 68	85 68	85 71	87 69	87 70	87 67	86 66	88 69	86 71		89 69	85 71	88 68	86 72	86 72	87 72	88 75	87 75	86 72	86 73	86 74	86 70	84 71	86 72	86 73	86.2 70.4	
UPOLU POINT USCG 159.2	MAX MIN	85 70	86 72	83 71	81 73	85 73	85 70	86 70	85 71	85 72	84 71	83 70	86 72	86 74	85 73		86 73	86 72	86 71	85 71	84 73	83 71	85 70	86 71	83 71	84 71	84 72	84 71	86 73	81 75	86 70	84.5 71.6	

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIMUE WSO 1020.1 4P	EVAP	.37	.31	.36	.21	.25	.26	.27	.16	.15	.21	.14	.23	.23	.22	.23	.21	.23	.24	.29	.26	.31	.31	.39	.34	.32	.29	.31	.22	-	.15	.14	7.868
	WIND	160	141	180	204	199	104	82	59	64	91	73	89	65	75	58	54	74	86	91	133	160	196	227	199	168	170	179	82	31	47	59	3600
	MAX	90	88	90	87	90	90	89	89	89	89	86	90	89	91	93	93	93	92	90	89	89	87	88	86	88	88	87	85	72	72	86	88.0
	MIN	71	70	70	70	71	67	68	68	71	73	72	72	68	68	68	71	70	71	70	69	71	69	70	70	70	70	71	70	69	65	64	69.6
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.22	.29	.31	.23	.21	.19	.24	.23	.22	.21	.19	.25	.27	.22	.33	.24	.30	.27	.25	.30	.25	.30	.30	.30	.30	.19	.21	.25	.07	.15	.15	7.44
	WIND	21	22	26	27	23	19	22	33	35	20	24	32	26	31	23	24	25	20	25	25	26	34	39	33	25	26	25	26	31	17	18	803
	MAX	84	87	90	85	89	85	92	91	91	93	89	90	92	90	94	94	92	93	91	88	85	88	88	88	87	85	86	86	83	78	80	88.2
	MIN	66	65	65	67	66	63	65	67	68	69	69	66	65	66	68	67	66	66	64	64	64	64	65	65	64	65	65	67	65	64	66	65.6

See Reference Notes Following Station Index

ON INDEX

STATION	INDEX NO.	DIVISION	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
							TEMP.	PRECIP.	EYAF.	SPECIAL									TEMP.	PRECIP.	EYAF.	SPECIAL	
ISLAND OF KAUAI																							
EXANDER RESV. 983	0140	02	KOLDA	21 21 57	159 32	1610					MCROYE SUGAR CO.												
KALAU 1114	0145	01	KAWAHU	21 22 08	159 18	1800	7A				LITHUE PLANTATION CO.												
WYOMODA 1075	0146	02	KOLDA	21 21 59	159 32	1800	7A				MCROYE SUGAR CO.												
ST. LAWI 934	0465	02	KOLDA	21 21 59	159 30	1440	7A				MC BRYDE SUG CO LTD												
W. S. RESERVATOR 1094.1	0465	02	KAWAHU	21 22 08	159 22	275					LITHUE PLANTATION												
ELI 970	0470	01	KOLDA	21 21 59	159 35	1440	7A				MC BRYDE SUGAR CO LTD												
LAUHA 1110	01935	01	KAWAHU	21 22 07	159 19	233	7A				LITHUE PLTN CO LTD												
LAUHA 1000	01935	01	KAWAHU	21 22 08	159 26	490	8A				GRAVE FARM CO LTD												
NALIE TUNNEL 1053	0121	01	KAWAHU	21 22 08	159 36	1800	7A				LITHUE PLTN CO LTD												
KIPO 945	0266	03	WALMEA	21 21 59	159 41	800					KEKAHA SUGAR CO LTD												
LILUHA INTAKE 1050	02122	02	LITHUE	22 22 02	159 28	1055	VAR				LITHUE PLTN CO LTD												
WAKAHU MINA PC 1066	02207	01	HANAIE	21 22 09	159 34	690	8A				MC BRYDE SUG CO LTD												
WAKAHU MINA PC 1066	02207	01	HANAIE	21 22 09	159 34	690	8A				MC BRYDE SUG CO LTD												
PAK STABLES 1104	03159	01	KAWAHU	21 22 05	159 20	175	7A				LITHUE PLTN CO LTD												
LAUHA 945	0392	01	KAWAHU	21 22 06	159 30	100	9A				LITHUE PLTN CO LTD												
LAUHA 945	04272	03	WALMEA	21 21 58	159 43	9	8A				KEKAHA SUGAR CO LTD												
LAUHA 945	04561	01	HANAIE	21 22 06	159 24	115	9A				HETCALP FARMS HJ, INC												
LAUHA FIELD 17 1135	04560	01	HANAIE	21 22 06	159 24	115	9A				HETCALP FARMS HJ, INC												
LAUHA POINT 1133	04560	01	HANAIE	21 22 06	159 24	115	9A				U S COAST GUARD												
LOD 1037.1	0450	03	WALMEA	21 22 02	159 41	2150					KEKAHA SUGAR CO												
LOD 1033	0475	03	WALMEA	21 22 04	159 46	36	7A				KEKAHA SUGAR CO LTD												
KOLDA 936	0472	02	KOLDA	21 21 58	159 28	1440	7A				GRAVE FARM CO LTD												
KOLDA MAUKA 994	04750	02	KOLDA	21 21 58	159 29	640	7A				GRAVE FARM CO LTD												
KOLOK RES 1137	04750	01	KAWAHU	21 22 11	159 23	650	8A				HETCALP FARMS HJ, INC												
KOLOK RES 1137	04750	01	KAWAHU	21 22 11	159 23	650	8A				MC BRYDE SUG												

STATION INDEX

HAWAII
OCTOBER 1972

CONTINUED

												OCTOBER 1972													
STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP	EVAP	SPECIAL SPEC. NOTES										TEMP	PRECIP	EVAP	SPECIAL SPEC. NOTES	
LAND OF HAWAII																									
MAUNA 18	A 6407	03	KAU	3 19 11	155 30		600			MO		HAWAIIAN RANCH CO	PUU LEMUA 73	A 8400	04	N KOHA	4 19 34	155 49	4880					W.M. GREENWELL RANCH	
MOUNTAIN VIEW 91	A 6592	02	PUNA	2 19 33	155 07		1330	8A	BA			PUNA SUGAR CO	PUU HALL 113	A 8515	01	MAHAKUA	2 19 55	155 26	6960					KUKAIAU RANCH CO	
MALEHU 14	A 6588	03	KAU	3 19 04	155 35		673	8A	BA			HUTCHINSON SUGAR CO	PUU DD 82	A 8550	02	S HILO	2 19 44	155 23	6340	8A				MISS JACKIE BENLEHR	
MAPOPOD 28	A 6697	04	S KOHA	3 19 28	155 55		395	7A				KONA EXPERIMENT STA	PUU MAWAA 94.1	A 8555	05	N KOHA	5 19 47	155 51	2520	7A				CAPT COOK CATTLE CO	
NIHILI 178	A 6806	01	N KOHALA	2 20 14	155 45		75	8A				KOHALA CORPORATION	SADDLE ROAD 1 8A	A 8590	02	S HILO	2 19 42	155 12	2340	WN				BOARD OF WTR SUPPLY	
OKALA 223	A 7131	02	N HILO	2 20 01	155 17		430	7A				LAUPAHEOE SUGAR CO	SOUTH POINT CORRAL 3	A 8675	03	KAU	3 18 57	155 41	500	W1				HAWAIIAN RANCH COMPANY	
OPIMAHLE 2 24.1	A 7168	04	S KOHA	2 19 18	155 53		1270	7A				MISS C LEONARD	UMIKOA 118	A 8780	01	MAHAKUA	1 19 59	155 23	3420	7A				KUKAIAU RANCH CO	
PAHIO LAND EST 91.5	A 7185	02	PUNA	2 19 34	155 00		445	VAR				BOARD OF WATER SUPPLY	UPOLU POINT USCG 159.2	A 8830	01	N KOHALA	1 20 15	155 33	41	8A				U S COAST GUARD	
PAHIAU 217	A 7204	01	MAHAKUA	1 20 05	155 26		415	7A				PAHIAU SUGAR CO	WAIKAEA SCD 88.2	A 9025	02	S HILO	2 19 40	155 08	1030	7A				SHINICHI KANESHIRO	
PAULULI 221	A 7312	01	MAHAKUA	1 20 03	155 22		800	7A				MAHAKUA MILL CO	WAIKANDOLA 178.6	A 9350	01	N KOHALA	1 20 08	155 47	3630	7A				KAHUA RANCH	
PAHALA 21	A 7421	03	KAU	3 19 12	155 29		870	8A	BA			HAWAIIAN AGS CO													
PANOA 65	A 7437	02	PUNA	2 19 30	155 07		670	8A				PUNA SUGAR CO													
PANAO 37	A 7643	03	KAU	3 19 22	155 28		5000		NO			HAWAIIAN RANCH CO INC													
PAPAIOU 144.1	A 7711	02	S HILO	2 19 47	155 06		200	7A				MAUNA KEA SUGAR CO													
PAPAIOU MAUNA 140.1	A 7721	02	S HILO	2 19 47	155 08		1270	7A				MAUNA KEA SUGAR CO													
PITIKOHA 89	A 8051	02	S HILO	2 19 44	155 10		1730		NO			STATE DIV OF FORESTRY													
POMERULOA 107	A 8063	02	MAHAKUA	1 19 45	155 32		551	VAR				STATE DIVISION OF PARKS													
PURAO 95.1	A 8180	05	KOHALA	5 19 59	155 50		5	8A	BA			ERWIN H. RAPP													
PUU KIME 120	A 8393	01	MAHAKUA	1 19 54	155 24		7750		NO			KUKAIAU RANCH CO													
PUU LABU 102.1	A 8452	05	MAHAKUA	5 19 50	155 36		7440		NO			STATE DIV OF FISH-GAME													

↑ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3850, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tenths of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: Is measured in the standard weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. **WAT AND WIND VALUES:** In the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.

No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.

+ And also on an earlier date or dates.

→ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index", indicates amount carried in the "Total" column is for the period from last measurement of the preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.

MO Gage read once monthly; usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.

J "Supplemental Data" table.

SS Observation time is near sunset.

VAR Observation time is variable.

W1 Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for each State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: \$2.50 a year for each section including annual summary; \$1.00 additional for foreign mailing; 20¢ single copy; 20¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center

USCOM-NOAA-ASHEVILLE, N. C. 1/31/73-890

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CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

HAWAII
NOVEMBER 1972
Volume 68 No. 11

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature										Precipitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
											Max. Min.								Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
NOVEMBER 1972

Station		Temperature											Precipitation												
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
											Max.		Min.							Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											30° or Above	32° or Below	32° or Below	30° or Below											
KEAAU 92		78.7	64.9	71.8	- .8	83	30	60	22		0	0	0	0	15.88	1.95	3.31	11	.0	0		21	11	6	
KEALAKEKUA 26.2		78.4	62.2	70.3		82	8+	58	30		0	0	0	0	1.57		.45	15	.0	0		4	0	0	
KONA (KAILUA) 68.3	A	84.3M	70.2M	77.3M		88	1	65	30		0	0	0	0	.09				.0	0		0	0	0	
KUKUIHAELE HIC 199															10.28		1.90	16	.0	0		14	7	4	
KULANI CAMP 79		62.8	46.6	54.7		72	3	39	30+		0	0	0	0	15.49		2.39	11	.0	0		17	8	6	
PAHALA 21	A	M	M	M		83	10+	59	27		0	0	0	0	1.80		1.15	28	.0	0			1	1	
POHAKULOA 107	A														.28				.0	0					
PJAKO 95.1	A	83.8	70.1	77.0		88	9	63	30		0	0	0	0	T		T	27+	.0	0		0	0	0	
PJU WAAWAA 94.1	A														.15	- 1.94	.10	11	.0	0		1	0	0	
UMIKOA 118															6.91	.51	2.44	12	.0	0			4	1	
WAIKOA SCO 88.2															27.17		4.73	11	.0	0		20	14	10	
ISLAND			69.6												7.38				.0						

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE: 94° ON THE 25+ AT LUALUALEI 804, OAHU

LOWEST TEMPERATURE: 31° ON THE 19+ AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION: 49.20 INCHES AT PUOHOKAMOA 2 343, MAUI

LEAST TOTAL PRECIPITATION: .00 AT 3 STATIONS

GREATEST ONE-DAY PRECIPITATION: 7.11 INCHES ON THE 11TH AT KIPA 89.2, HAWAII

SPECIAL WEATHER SUMMARY

Other weather events of the month were overshadowed by the rough seas and high surf that claimed six lives in five separate incidents during the last third of November. Also noteworthy, however, were the formation of a hurricane far to the south, record low temperatures brought by the first cold front to transit the entire State this winter, snow on Hawaii's high mountains, and the continuation of widespread dry weather.

On the 3d, as a preview of things to come, waves up to 15 feet high (the winter's first) pounded Oahu's north shore from Waimea to Sunset Beach, but did no damage.

On about the 7th, the vortex which later became Typhoon RUBY, developed near 3° N 159° W in the Intertropical Convergence Zone. It then moved northwestward, reaching typhoon strength by the 13th just before crossing the International Date Line at 12° N. After passing westward about 200 miles south of Wake on the 17th, RUBY ended its career a few days later about midway between Wake and Guam. Wake's peak gust was 49 m.p.h. from the east on the 18th.

On the 10th, the winter's first major snowfall blanketed Mauna Kea to a depth of about 1-1/2 inches down to the 11,000-foot level. And from the 19th on the month's weather was dominated by high waves generated by storms north of the State and by a fast-moving cold front.

On the 19th, off Oahu's north shore, two men drowned and a number of others barely escaped from rough seas and surf up to 13 feet high. While the latter is not at all uncommon for the place and season, the first high waves of winter almost invariably lead to a number of drownings and close calls, particularly among young servicemen and other inexperienced or foolhardy venturers into these dangerous waters. The 19th was no exception. In one incident, two of four servicemen caught in high surf at Sunset Beach were dragged by receding waves into the rough sea, where one was lost and the other rescued nearly unconscious. Earlier, a surfer who lost his board had managed to reach shore before help arrived, while another had to be hauled out by a fire rescue squad. The day's second drowning occurred at nearby Waimea Bay, when a young man rock-climbing with two companions was knocked down by a large wave and swept out to sea. And in rough waters at Alii Beach and Lanikai, two young men were rescued by helicopter.

On the morning of the 25th, after waves capsize their 8-foot skiff, a 79-year-old fisherman was lost off Niu, Oahu, when he was left standing on the reef 300 yards offshore, while

his friend walked ashore in chest-deep water for help.

That night a 20-foot outboard motorboat returning to Pokai Bay, Oahu, was swamped by high waves off Makaha when brought too close to shore in seeking the rain-obscured lights of the Bay. Three of the five fishermen aboard were swept safely to shore, but one man was drowned and another lost. The boat was later found washed ashore.

Early on the morning of the 26th, a 26-foot boat off northwest Molokai between Ilio and Mokio Points was flipped over by breaking waves when it lost or dragged its anchor and drifted too close to shore. Two of the three men aboard reached shore safely, but the third was lost. According to the survivors, who were asleep until minutes before the accident occurred, the seas had been calm when they turned in. Pieces of the wrecked boat were later found on the shore. On the 30th, 15- to 20-foot waves generated by a storm 800 miles to the north struck the northern shores of Kauai and Oahu, but did no damage.

The first cold front to make its way completely through the islands this winter did so in just 18 hours, passing Lihue between 1 and 2 p.m. on the 25th, Honolulu between 7 and 8 p.m., Kahului on the 26th between 1 and 2 a.m., and Hilo between 7 and 8 p.m. Fans at the San Jose-University of Hawaii football game in Honolulu Stadium were drenched and windblown by the pre-frontal showers and southwesterly winds.

The most noticeable effect of the front, however, and a popular topic of conversation, was the cold air that blanketed the islands in its wake. As compared to the 25th, the day preceding the frontal passage, the daily maximum and minimum temperatures dropped sharply throughout the State: 5° and 7°, respectively, at Lihue; 3° and 6° at Honolulu; 11° and 8° at Wheeler Air Force Base, Oahu; 9° and 5° at Kahului; and 6° and 3° at Hilo. Honolulu and Kahului Airports registered their lowest November temperatures in 26 and 8 years of record, respectively: 58° at Honolulu on the 27th, compared with the previous minimum of 59°, and 55° at Kahului on the 28th, compared with its previous 58°.

Small craft warnings (to be called small craft advisories beginning January 1, 1973) for Hawaiian waters were in effect on 18 days because of gusty trade and frontal winds.

Despite the showers that accompanied the frontal passage, it was a dry November. On Oahu, Kauai,

SPECIAL WEATHER SUMMARY - Continued

and Maui, only a small scattering of gages reached or exceeded their average rainfall for the month. Much of eastern and southwestern Kauai and of coastal Oahu, all of Lanai, and most of Molokai had less than half and in places less than one-fourth their November means. Maui was dry nearly everywhere. Especially along the southwestern coast and in the central valley and Kula, most gages had less than one-fourth their aver-

age rainfall for November and many none at all. On Hawaii Island, however, most stations in the drought-plagued Kohala-Hamakua coast reached or exceeded their monthly means. But that island's southeastern and western sections were very dry, with almost all gages registering well below one-third of their average November rainfall.

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HAWAII
NOVEMBER 1972

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DAILY PRECIPITATION

Continued

HAWAII
NOVEMBER 1972

Station		Total	Day of Month																															NOVEMBER 1972	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KEALAKEUA 26.2	A	1.57	.38			.02				T						.01	.45			.33	T	.38													
KEHENA 181.2	A																																		
KIOLAKA A & F 6	A	3.36																																	
KIPA 89.2	A	34.53	.95	.13	2.72	.68	1.65	1.14	4.08	2.66	.65	.49	7.11	.64	.69	.18	.55	2.63	1.18	4.92	1.22	.01	.21	.03	.01					3.36					
KOHALA MAULILI 176	A	10.00		.01	2.26		1.27	1.15	.31	.08					2.00	.01	.16	.86	.63		.95	.01													
KOHALA MISSION 175.1	A	7.69	T	T	1.53	.15	.13	.29	.88	.21	.03	T	1.30	.61	T	.02	.10	.52	.40	1.32	.03		.10				.04	.03	T						
KOIAWE LOWER 196	A	11.45			2.08							6.00																							
KONA (KAILUA) 68.3	A	.09	T																																
KONA VILLAGE 93.8	A	.00																																	
KUKAIAU 222	A	20.94		1.57	.08	1.55	.69	1.82	1.78	.10	.10	2.77	2.92	.01	.02	.14	2.32	1.64	2.44	.04		.01					.02	.91	.01						
KUKUIMAELE HIC 199	A	10.28			1.23	.08	.72	.19	1.35	.75	.07		.41	1.41			.15	1.90	.67	.33															
KUKUIMAELE HILL 206	A	7.36			.76			.65	1.06	.54	.13	.01			1.76	.02	.14	1.30	.28		.63							.21	.48						
KULANI CAMP 79	A	15.49	.17	.18	1.90	.05	.12	.30	.95	.37	.43	.33	2.39	.89	1.69	.12	.24	1.63	2.00	1.70			.04												
KULANI MAUKA 76	A	3.37	.02		.45	.05			.14	.04	.10	.27	1.38				.22	.40	.15	.15											.03				
KULANI SCHOOL SITE 78	A	17.84				2.20						5.56									5.08														
LANIHAU 68.2	A	1.10			.53												.16	.10		.26	.05										5.00				
MAKAMALAU 103	A	.38							.20																										
MAUKA 2	A	.70	.40																													.18			
MAUNA KEA OBS 111.2	A	.23		.06																															
MAUNA LOA SLOPE OBS	A	.16		.01	.02							.13	.04	.13				T	T	T	T	.20							.10						
MIDDLE MOULALOA 68.1	A	.50		.35																		.15													
MIDDLE PEN 147.1	A	.80																																	
MOAULA 18	A	.80																																	
MOUNTAIN VIEW 91	A	19.96	.71	.13	2.15	.38	.31	.61	1.61	1.01	.53	.49	3.49	.72	.27	.21	.18	1.96	1.46	2.40	.93	.02	.19	.14	.03						.80				
NAALEHU 14	A	1.27	.20		.36				T						.02			.08	.03		.51	T													
NAPOOPOO 28	A	.40					.38								.02																				
NIULII 179	A	7.49			1.29		.88	.79	.25	.05	.01			1.74	.05	.09	.45	.16			1.68		.05												
OOKALA 223	A	16.97	.17	.02	1.18	.46	.41	.42	1.52	1.62	.29	.18	3.00	2.65	.05	.05	.18	.56	.22	1.97	.44	T													
OPINIHALE 2 24.1	A	3.14	.05	.03	T	.01	.13	T		1.54	T						.02	T	.60	.56	.02	T													
ORCHID LAND EST 91.5	A	13.24			1.95							4.50																							
PAAUMAU 217	A	9.88		.74		.06	.33	.25	1.38	.58	.12	.07	1.42	1.55	.02	.01	.11	1.48	.37	1.14															
PAPAUIO 221	A	18.81		1.28	.02	1.29	.57	1.67	1.28	.07	.05	2.76	2.00	.03	.02	.09	2.50	2.05	1.85	.03	.01	.01	.01								.11	.14			
PAHALA 21	A	1.80	.03		.10										.13						.11														
PAHOLA 65	A	12.49	.85	.24	1.05	.40	.34	.66	.59	.61	.44	.98	1.37	.28	.11	.47	.38	1.26	.48	.91	.35		.05	.14	.42	.07									
PAKAO 37	A	2.60																																	
PAPAIAUO 144.1	A	19.10	1.36	.12	1.01	.79	.36	.63	.95	1.37	.24	1.05	4.92	1.03	.17	.23	.24	1.23	.52	1.83	.71	.02													
PAPAIAUO MAUKA 140.1	A	30.42	.98	.16	2.03	.97	.77	1.29	2.33	2.94	.66	.84	5.50	2.43	.44	.14	.42	2.19	.79	4.22	1.01	.02													
PIIHONUA 89	A																																		
POMAKOULA 107	A	.28												.28																					
PUAKO 95.1	A	T																																	
PUU KIHE 120	A	3.24																																	
PUU LAU 102.1	A	.58																														3.24			
PUU LEHUA 73	A	.30																														.58			
PUU MALI 113	A	1.00																														.30			
PUU DD 82	A		T	1.25	.02	.05	.01		.35	.03	.02	3.07	.17				.11	.22	1.25	1.75	.80	.02										1.00			
PUU WAAMAA 94.1	A	.15					.02						.10								.03														
SAOILE ROAD 1 84	A	36.22			5.52							8.70							14.00																
SOUTH POINT CORRAL 3	A	1.14					.49														.05														
UNIKOA 118	A	6.91	.04		.34	.09	.02	.29	.58	.68	.02			2.44	.02	.01	.38	.84		.44	.48														
UPOLU POINT USCG 159.2	A	2.55		.32		.09	.05	.21	.37	.05	.07	.02	.10	.06			.06	.22	.17	.33									.28	.08					
WALAEKA SCO 88.2	A	27.17	.69	.14	2.02	.39	.48	1.34	2.17	2.60	.87	.51	4.73	1.27	.21	.15	.79	2.25	1.18	4.15	1.01	.02		.10	.06	.04									

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation							Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time 150TH MERIDIAN				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total		
							02	08	14	20									
HILO WSO 87 AP	18	0.6	6.2	17	NW	26+	90	87	74	86	1	4	8	6	3	1	23	25	7.8
HONOLULU WSO 703 AP	5	12.2	15.0	30	NE	15	75	71	54	68	13	8	2	0	0	0	23	63	5.3
KAHULUI WSO 398 AP	5	11.3	13.6	30	E	10	85	78	57	77	10	5	1	0	0	0	16	77	3.7
LIHUE WSO 1020.1 AP	5	10.0	12.2	27	NE	12	82	77	70	79	5	14	6	0	0	0	25	47	6.5

DAILY TEMPERATURES

HAWAII
NOVEMBER 1972

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	76 56	70 55	72 52	68 58	68 58	72 60	64 57	63 57	65 56	68 56	68 55	66 55	68 57	64 56	65 54	67 54	69 56	69 52	69 44	68 46	68 48	69 54	68 49	65 47	63 47	55 47	58 46	62 50	58 52	57 49	66.1 52.8	
KILAUEA POINT 1133	MAX MIN	78 78	79 79	80 80	82 82	80 80	80 80	80 80	79 78	78 78	80 80	79 79	80 80	77 77	78 78	78 78	79 79	78 78	80 80	80 80	79 79	81 81	81 81	79 79	86 86	84 84	75 75	85 85	81 81	77 77	78 78	79.7	
LIHUE WSD 1020.1 AP	MAX MIN	83 77	83 74	83 75	81 74	83 75	82 74	82 75	81 73	81 74	82 73	82 76	81 73	81 72	81 74	81 74	81 74	81 73	81 73	81 72	81 74	81 75	81 75	82 71	82 70	81 65	76 61	79 60	79 61	77 61	78 59	80.9 71.3	
MAKAHUEA POINT 940.1	MAX MIN	85 74	84 72	82 77	82 73	82 72	81 71	80 70	80 71	80 71	77 71	81 71	79 69	81 70	80 69	81 72	81 71	80 74	81 74	82 71	82 70	81 74	81 72	81 70	83 72	83 72	85 72	79 51	82 63	81 62	77 60	81.2 69.6	
HANA 1026	MAX MIN	76 70	68 68	68 68	65 65	68 68	69 69	66 66	68 68	65 65	66 66	66 64	65 65	85 64	84 63	86 61	85 63	84 66	84 66	82 65	86 62	83 64	82 65	85 65	82 65	85 68	80 63	75 62	78 62	80 63	77 63	82.3 65.1	
NIU RIOGE 1035	MAX MIN	85 65	82 63	83 63	82 62	81 61	83 62	80 62	82 63	80 62	80 62	82 61	80 62	83 60	83 61	81 59	81 60	82 60	84 60	83 60	84 59	82 59	84 60	81 60	81 59	80 61	81 60	82 58	76 62	76 60	81.6 60.9		
WAIKAI LOWER 1054	MAX MIN	82 67	80 68	79 67	76 67	78 67	76 66	75 67	78 65	77 65	76 66	79 66	78 64	77 65	78 65	76 63	78 64	79 65	79 65	80 63	79 61	79 62	79 62	79 63	81 62	81 58	75 53	78 51	76 52	78 53	77 51	78.1 62.4	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	88 73	83 71	84 72			83 70	79 71	83 71	81 70	81 71			82 67	79 70	79 68	81 68	82 68			84 64	81 66	82 67					83 57	78 59	80 58	81 60		
HONOLULU WSD 703 AP	MAX MIN	86 73	86 73	85 75	86 75	86 76	83 72	84 74	83 73	83 72	85 72	84 73	84 73	83 73	82 71	83 71	85 71	85 73	85 71	86 66	84 71	84 70	83 74	81 65	82 70	79 65	81 64	81 58	79 60	82 61	81 61	83.5 69.8	
HONOLULU SUBSTA 704	MAX MIN	82 72	81 72	81 75	80 74	81 75	78 72	79 72	79 71	79 73	80 73	80 73	79 73	78 73	78 70	78 72	79 73	79 73	80 72	81 70	79 71	78 72	79 70	78 71	78 70	77 66	77 64	79 64	76 64	78 65	79 65	79.0 70.7	
KAMUKU 912	MAX MIN	84 75	84 77	84 74	85 76	86 75	82 72	84 73	82 75	82 73	85 75	85 76	84 74	84 74	78 74	78 73	79 74	80 74	84 74	84 72	82 72	80 75	81 74	87 76	87 76	84 76	82 76	81 74	87 72	84 65	82 65	82.7 73.2	
KANEHE MAUKA 781	MAX MIN	84 74	83 74	82 74	78 73	80 74	81 71	76 72	80 71	79 72	78 73	80 73	81 72	79 73	78 72	78 73	79 72	79 70	79 72	81 69	81 68	80 69	80 70	80 71	78 69	83 69	83 68	81 63	76 62	78 63	79 63	79.7 70.2	
LUALUALEI 804	MAX MIN	88 65	94 69	90 62	90 68	89 72	84 70	87 71	83 71	81 69	89 72	89 72	86 68	80 59	81 67	89 72	91 69	80 62	89 62	89 62	94 62	84 65	84 66	82 65	84 66	94 69	84 61	80 58	89 58	85 58	78 58	86.2 66.0	
MAKAPUU POINT 724	MAX MIN	78 76	80 70	77 68	77 66	77 59	78 68	74 71	79 66	75 66	75 74	76 71	76 70	77 70	78 67	76 65	75 70	78 69	76 70	76 69	78 70	76 68	76 70	76 68	76 69	76 70	73 62	73 63	73 63	75 62	75 61	76.5 67.7	
OPAELA 870	MAX MIN	85 65	80 64	75 65	77 70	78 70	75 64	70 70	71 64	70 64	78 63	75 62	75 66	71 63	70 65	70 64	79 62	80 64	82 66	85 60	79 61	85 61	79 63	78 67	80 67	82 66	80 65	82 56	85 55	76 56	80 55	77.1 63.5	
PRI WAIKAIWA 820.2	MAX MIN	88 67	82 68	81 62	78 69	78 70	82 67	77 67	78 67	77 66	78 66	78 68	80 68	80 61	78 68	76 68	79 62	80 64	79 64	80 61	83 60	80 61	80 65	78 63	79 63	84 59	82 58	85 54	75 55	76 54	79 54	79.6 63.3	
WAIKALEE 896.3	MAX MIN	84 74	83 71	82 74	82 71	81 71	82 70	78 70	80 70	81 70	81 72	81 72	81 72	81 70	77 69	80 71	81 72	81 70	81 70	81 69	81 70	81 71	81 71	81 70	81 72	80 69	81 63	82 62	76 64	71 66	79 66	80.4 69.7	
WAIKALUA 847	MAX MIN	90 68	83 66	83 66	84 66	84 66	84 72	80 72	81 66	80 66	80 66	84 67	83 66	84 66	78 63	78 67	79 65	82 61	85 66	87 65	87 63	83 66	82 66	82 66	82 66	82 66	78 66	77 66	77 59	82 60	82.4 65.2		
WAIKIKI 717.2	MAX MIN	88 73	85 71	84 72	84 72	84 72	84 71	83 69	83 71	83 71	82 72	82 73	81 73	84 73	81 73	81 71	82 72	83 72	84 72	83 72	85 72	82 72	84 70	84 66	81 61	84 63	84 64	78 56	80 58	81 58	82 59	82.9 69.1	
WAIMANALO EXP FARM	MAX MIN	84 74	79 71	80 73	79 74	82 71	82 71	80 70	81 71	80 71	79 71	81 72	81 73	80 70	80 71	80 70	81 73	79 73	81 73	81 73	79 71	81 73	81 72	80 70	81 66	81 63	81 61	77 59	78 60	80 59	80 59	80.3 69.2	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	86 76	84 71	80 72	81 72	80 72	76 70	80 71	82 72	78 70	79 70	79 73	78 72	84 71	81 70	78 71	77 70	78 71	79 69	79 69	81 69	81 68	78 68	77 63	79 63	79 62	82 62	73 62	77 61	79 62	78 62	79.4 68.8	
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN	82 68	79 64	75 65			76 62	76 64	74 61	74 61	76 64			76 59	74 60	72 58			75 64			76 60	74 58	74 59				81 56	73 55	76 62	76 59		
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	73 55	71 50	70 55	71 50	64 45	70 47	59 47	59 45	56 45	61 45	64 45	62 48	65 46	66 47	58 42	59 43	59 44	61 44	61 42	62 49	69 57	69 51	71 43	63 43	71 36	61 37	51 37	61 42	61 43	63 40	63.7 45.7	
HALEAKALA SUMMIT 338.4	MAX MIN	61 46	59 44	54 43	58 46	58 46	57 42	55 40	56 40	46 38	52 38	50 38	52 38	53 41	54 40	50 38	53 38	50 40	50 40	55 41	58 40	55 48	60 46			58 44	56 35	42 33	54 41	56 43	54 45	54.2 41.1	
HANA AIRPORT 355	MAX MIN	85 68	85 66	81 69	82 68	84 68	81 68	82 68		81 66	82 67	82 68	80 64	81 67	80 66	80 66	81 68	82 68	81 68	82 65	82 66	82 66	80 69	79 66	80 61	82 66	85 62	74 60	75 60	78 59	80 59	80.8 65.9	
KANAPALI AIRPORT	MAX MIN	85 67	83 67	81 70	83 72	82 68	80 68	82 72	82 66	81 66	82 67	81 68	80 72	81 68	80 65	80 62	81 67	82 68	82 65	82 66	81 66	81 66	79 66	80 61	80 61	80 66	81 62	75 60	78 60	79 65	79 65	80.7 66.4	
KAHULUI WSD 398 AP	MAX MIN	86 72	84 72	87 74	85 73	83 70	85 71	85 72	80 71	85 71	84 71	83 70	84 70	82 73	82 69	83 71	85																

See Reference Notes Following Station Index

KAWAII
NOVEMBER 1972

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA SANATORIUM 267	MAX MIN	78 59	75 60	73 61	72 57	73 58	72 58	75 59	74 72	72 57	74 57	74 58	75 55	73 55	72 56	70 55	73 57	74 57	72 58	71 57	72 54	73 54	71 54	71 55	71 54	72 55	75 54	68 54	72 55	70 57	71 51	72.6 56.5	
LAHAINA 361	MAX MIN	88 68	89 65	89 67	88 65	90 65	85 68	89 67	87 65	87 65	88 67	87 67	86 66	87 67	85 64	87 64	87 64	87 65	84 65	85 62	85 61	86 62	87 61	85 60	85 60	77 59	82 57	82 58	83 59	83 60	85.8 63.5		
WAILUKU 386	MAX MIN	86 72	81 70	80 71			81 69	80 70	78 71	79 69	81 69			80 69	80 71	79 68	79 70	80 70			81 69	80 69	80 68					86 60	76 60	79 61	84 63		
* * *																																	
ISLAND OF HAWAII																																	
HAINA 214	MAX MIN	83 70	81 70	80 70	79 68	78 68	78 68	79 68	74 68	79 67	78 67	78 67	71 67	77 66	77 66	79 66	76 67	74 67	78 68	78 64	78 65	77 64	78 67	78 64	78 64	79 65	80 64	69 63	74 64	78 62	79 64	77.5 66.4	
HAWAII VOLCNS NP HC 54	MAX MIN	69 54	68 54	70 60	65 55	63 58	68 59	67 56	69 59	65 52	65 53	76 54	63 49	66 53	66 51	66 56	60 55	62 56	69 58	62 54	67 56	70 61	67 52	67 51	65 49	68 47	69 56	67 56	61 49	66 52	68 46	66.7 53.3	
HILD WSD 87 AP	MAX MIN	83 67	78 68	80 70	80 68	81 69	82 69	79 70	81 69	81 68	81 68	79 68	80 63	80 66	80 65	77 65	81 68	81 68	79 69	81 66	80 65	80 65	80 65	81 66	83 65	82 66	76 62	80 61	79 64	80 65	80 64	80.2 66.3	
KAINALIU 73.2	MAX MIN	81 70	79 64	80 64	80 69	82 64	77 64	78 63	80 66	80 64	78 62	80 62	78 59	77 60	78 64	78 61	77 61	78 62	79 61	75 60	77 60	79 60	78 63	77 59	78 60	76 60	78 62	72 60	75 59	77 59	76 57	77.9 61.9	
KAMUELA 192.2	MAX MIN	80 60	71 58	70 61	69 60	68 58	69 57	70 60	71 58	70 59	68 59	70 59	69 59	69 58	70 58	70 58	69 58	68 58	70 58	69 57	72 59	70 59	71 58	72 53	73 54	74 48	76 51	66 54	70 53	73 44	73 48	70.4 56.3	
KEAAU 92	MAX MIN	82 67	82 66	77 66	79 67	79 68	79 68	79 67	75 67	80 66	79 66	79 66	76 64	79 65	79 64	79 65	75 65	79 68	79 64	79 66	79 61	78 64	78 60	79 65	80 64	80 64	80 62	75 62	76 63	79 64	83 63	78.7 64.9	
KEALAKEKUA 26.2	MAX MIN	82 70	80 64	80 64	80 69	74 63	76 63	80 63	82 64	80 6																							

EVAPORATION AND WIND

Station		Day Of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * * ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP		EVAP WIND MAX MIN	.16 115 83 73	.28 215 87 70	.29 221 82 69	.13 213 83 70	.22 261 81 69	.28 215 82 69	.10 285 82 69	.29 237 84 68	.26 240 83 68	.22 249 81 68	.24 235 85 69	.28 210 83 68	.10 181 81 68	.28 210 82 68	.26 242 82 67	.28 224 82 67	.26 222 81 67	.20 178 83 67	.22 128 85 68	.22 102 86 67	.18 147 84 67	.19 161 82 67	.25 152 83 67	.23 97 85 67	.22 53 87 66	.12 79 78 59	.18 64 76 57	.07 46 78 57	.18 53 83 58	.18 49 76 56	6.37 5084 82.3 66.3
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2		EVAP WIND MAX MIN	.06 5 90 67	.30 15 88 65	.27 18 86 66	.19 23 88 65	.24 32 85 65	.22 23 85 65	.17 11 85 66	.15 16 86 66	.24 22 82 64	.19 23 84 64	.22 22 82 64	.26 19 85 63	.22 17 84 64	.19 21 76 62	.22 24 76 62	.23 24 83 62	.26 23 84 63	.30 13 82 63	.21 8 81 61	.20 12 85 61	.27 19 82 61	.18 14 80 62	.20 16 78 63	.27 12 83 61	.15 6 86 61	.22 22 85 55	.19 18 79 55	.15 13 75 55	.15 10 79 56	.20 8 87 57	6.32 509 82.8 62.8

CONTINUED

STATION INDEX

HAWAII
NOVEMBER 1972

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES					OBSERVER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-NO INTRA-ISLAND DIVISIONS LARAI: 1-NO INTRA-ISLAND DIVISIONS MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII".

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in "F", precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes", "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index" indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- J "Supplemental Data" table.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

Information concerning the history of changes in locations, elevations, exposure, etc., of stations through 1957 may be found in the publication "Substation History" for price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

Subscription Price: \$2.50 a year for each section including annual summary; \$1.00 additional for foreign mailing; 20¢ single copy; 20¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28601. Attn: Publications.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28601.

William H. Hoggard
Director, National Climatic Center

USCOMM-NOAA-ASHEVILLE, N. C. 2/28/73-890

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FIRST CLASS

CLIMATOLOGICAL DATA

HAWAII

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

DECEMBER 1972

Volume 68 No. 12

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Station		Temperature										Precipitation														
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days				
											Max.	Min.	Total	Max. Depth on Ground					Date	10 or More	50 or More	100 or More				
																							8° or Above	32° or Below	32° or Below	32° or Below
* * * ISLAND OF KAUAI																										
ANAHOLA 1114	A	61.5	46.5	54.0		68	25+	37	30+		0	0	0	0	1.71	- 3.69			.0	0				9	6	0
KANALOHULUHULU 1075															8.59		2.55	17	.0	.0						4
KAPAA STABLES 1104	A														1.76				.0	.0						0
KILAUEA FIELD 17 1135																			.0	.0						
KILAUEA POINT 1133		78.5		M		83	15				0	0	0	0	2.09		.55	7	.0	.0				6	1	
KOLOA 936															1.93	- 5.69			.0	.0						
LIHUE WSO 1020.1 AP	//R	77.8	63.2	70.5	- 1.7	81	30	55	11		0	0	0	0	1.27	- 3.91	.58	16	.0	.0				3	1	0
MANA 1026		79.3	64.1	71.7	- .4	89	27	53	31		0	0	0	0	2.21	- 1.09	.66	18	.0	.0				4	2	0
N WAILUA OITCH 1051	A														7.26				.0	.0						
PH WAINIHA 1115															3.38	-10.21	.97	3	.0	.0				9	1	0
PUEHU RIDGE 1040															3.79		1.42	17	.0	.0				5	4	1
WAIHANA 930	A														1.84	- 2.65			.0	.0						
WAIHI LOWER 1054		76.0	56.8	66.4		79	19	47	11		0	0	0	0	3.94		.88	17	.0	.0				7	4	0
WAIHEA 947															2.27	- 1.08	1.11	17	.0	.0				3	2	1
ISLAND																										
* * * ISLAND OF OAHU																										
HONOLULU OBSERV 702.2															3.16		1.92	19	.0	.0				3	2	1
HONOLULU WSO 703 AP	R	80.0	63.1	71.6	- 2.0	84	30+	55	11		0	0	0	0	3.59	.60	2.50	18	.0	.0				4	1	1
KAHUKU 912	A	79.6	67.5	73.6	.9	88	18	55	11		0	0	0	0	2.04	- 2.24	.89	19	.0	.0				4	2	0
KANEHOE MAUKA 781		77.2	65.4	71.3	- .8	81	31	61	10		0	0	0	0	5.35	- 1.50	2.00	18	.0	.0				5	3	2
KOOLAU OAH 833	A														5.70	- 4.30	1.75	18	.0	.0				9	3	2
LUALUALEI 804	A	79.7	60.1	69.9		86	23+	53	11		0	0	0	0	3.30		1.64	18	.0	.0				4	2	1
MAKAPUU POINT 724		74.3	65.1	69.7		79	18	59	21		0	0	0	0	2.35	- .96	1.87	19	.0	.0				3	1	1
NUUANU RES 4 783															6.24	- 4.82	2.04	25	.0	.0				11	2	2
OPAEULA 870	A	76.6	57.7	67.2	- .3	82	5	51	12+		0	0	0	0	3.07	- 3.90	1.50	19	.0	.0						
PALOLO VALLEY 718	R														5.34	- 7.97	2.32	18	.0	.0				8	4	2
PRI WAIHANA 820.2	A	76.6	57.2	66.9		82	18+	49	12+		0	0	0	0	3.90		1.72	19	.0	.0						
WAIHANA OAH 863	A														3.62				.0	.0						
WAIHOLE 837	A														7.23	- 7.06			.0	.0						
WAIHOLE 896.3		78.0	65.9	72.0		84	6	62	30		0	0	0	0	3.03		1.15	19	.0	.0				4	3	1
WAIHOLE 847	A	78.7	60.7	69.7	- 1.5	84	17+	54	11		0	0	0	0	3.20	- .74			.0	.0						
WAIKIKI 717.2		80.3M	62.2M	71.3M		84	7	53	11		0	0	0	0	2.43		1.67	19	.0	.0				2	2	1
WAIMANALO EXP FARM		78.6	63.5	71.1		82	3	56	14+		0	0	0	0	3.09		1.90	19	.0	.0				6	1	1
WAIKIKI 750	A														2.97	- .57	1.65	19	.0	.0						
ISLAND																										
* * * ISLAND OF MOLOKAI																										
KUALAPUU 534															3.36	- .90	1.69	19	.0	.0						1
MAKAPUU 542	A														2.62	- .88	1.25	19	.0	.0						1
MAUNALO 511	A														2.77		1.30	19	.0	.0				5	1	1
MOLOKAI AP 524		76.3	63.8	70.1		80	13	56	11		0	0	0	0					.0	.0						
ISLAND																										
* * * ISLAND OF LANAI																										
LANAI CITY 672	A	M	M	M		79	18	54	14+		0	0	0	0	3.21	- .51			.0	.0						
ISLAND																										
* * * ISLAND OF MAUI																										
HALEAKALA 8 E S 434	A	60.1	41.4	50.8		68	30+	33	9		0	0	0	0	4.76	- 5.70	1.56	19	.0	.0				6	4	2
HALEAKALA RS 338		78.2M	63.9M	71.1M		84	18+	57	20		0	0	0	0	4.56		1.78	19	.0	.0				7	2	2
HANA AIRPORT 355															7.56		3.72	31	.0	.0				8	2	2
HONOKOHUA 493	A														3.45	- 1.20	1.70	19	.0	.0						1
KANAPALI AIRPORT		77.7M	64.5M	71.1M		82	18	59	13		0	0	0	0	2.27		1.28	19	.0	.0				5	1	1
KAHULUI WSO 398 AP	R	79.9	62.4	71.2	- 1.5	84	25+	55	13		0	0	0	0	2.17	- .53	.65	18	.0	.0				7	1	0
KAILUA 446		77.4	61.0	69.2	.3	83	18	56	21+		0	0	0	0	6.92	- 4.93	1.51	19	.0	.0				10	7	1
KEANAE 346	A																		.0	.0						
KIPAHULU 258															4.95	- 5.96	1.15	19	.0	.0				11	4	2
KULA SANATORIUM 267		70.2M	54.6M	62.4M	.1	77	18	50	13		0	0	0	0	3.16	.13	1.75	19	.0	.0				4	2	1
LAHAINA 361		82.0	60.0	71.0																						

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII
DECEMBER 1972

Station		Temperature											Precipitation											
		Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
											Max.		Min.						Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											91° or Above	31° or Below	32° or Below	0° or Below										
KEAAU 92		77.9	62.6	70.3	- .7	89	19	57	21		0	0	0	0	2.90	-13.27	.58	16	.0	0		9	1	0
KEALAKEKUA 26.2		76.7	59.5	68.1		83	19	53	21		0	0	0	0	4.53		1.75	10	.0	0		5	3	2
KONA (KAILUA) 68.3	A					85	18	60	20		0	0	0	0	3.89		1.89	19	.0	0		2	1	
KUKUIHAELE HIC 199															6.51		2.10	20	.0	0		9	4	2
KULANI CAMP 79		63.2M	44.4M	53.8M		77	21	38	6+		0	0	0	0	3.23		.50	16	.0	0		1		0
PAHALA 21	A					83	26+	54	21		0	0	0	0	1.23		.35	15	.0	0				0
POHAKULOA 107	A														2.64				.0	0				
PUAKO 95.1	A	80.2	63.5	71.9		85	19	52	20		0	0	0	0	3.54		1.83	19	.0	0		4	2	2
PUU WAAWAA 94.1	A														4.61		1.91	19	.0	0				2
UMIKOA 118															5.39		1.54	9	.0	0		3		2
WAIKOA SCO 88.2															4.06		.70	28	.0	0		12	3	0
ISLAND				66.4											4.32				.0					

TEMPERATURE AND PRECIPITATION EXTREMES

HIGHEST TEMPERATURE:
89° ON THE 27+ AT 3 STATIONS

LOWEST TEMPERATURE:
29° ON THE 20TH AT MAUNA LOA SLOPE OBS, HAWAII

GREATEST TOTAL PRECIPITATION:
8.59 INCHES AT KANALOHULUHULU 1075, KAUAI

LEAST TOTAL PRECIPITATION:
.57 INCH AT KAALA IKI 12, HAWAII

GREATEST ONE-DAY PRECIPITATION:
3.72 INCHES ON THE 31ST AT HANA AIRPORT 355, MAUI

SPECIAL WEATHER SUMMARY

The month was mild and relatively uneventful for December -- a brief period of moderately high surf, a few funnel cloud sightings, seasonal snows on Hawaii's high mountains, a spell of cool weather, and unusually high atmospheric pressures. But perhaps more important than any of these was the continued absence of widespread winter rains, with persistent dry weather prevailing over much of the State.

On November 30, swell from a storm 800 miles to the north generated surf that reached heights of 15 to 20 feet on northern Kauai, 12 feet at Sunset Beach, Oahu, and 10 feet on Kahului, Maui. Although the waves did no damage and quickly subsided, seas remained rough for a few days, and on the 3d five persons had to be rescued at Waimea Bay, Oahu, including a young

soldier pulled unconscious from the water.

While cold fronts frequently reach the islands during the winter, four of them -- a greater number than usual -- completely traversed the island chain in December, moving through on the 2d to 3d, 7th to 9th, 16th to 19th, and 30th to January 1. Although these fronts brought relatively little rain, they were accompanied by gusty winds, which required the frequent hoisting of small craft warnings, as well as by unusually high atmospheric pressure, cool weather, and funnel clouds.

On the 20th, a high pressure area that followed a frontal passage gave all four Airport weather stations their highest sea-level pressures of record for December.

TABLE I

DECEMBER SEA-LEVEL PRESSURE MAXIMUMS (INCHES)

Airport Locations	December 1972	Previous December Maximum and Year	Years of Record
Honolulu	30.27	30.24 1970	24
Lihue	30.33	30.26 1960, 1965	23
Kahului	30.28	30.22 1969, 1970	11
Hilo	30.29	30.27 1952	22

Cold air in the wake of the fronts, aided by clear nighttime skies and light winds, sent the

month's average minimum temperatures well below December's long-term means.

TABLE II

DECEMBER AVERAGE MINIMUM TEMPERATURES

Airport Locations	December 1972	December Long-Term Mean	Years of Record
Lihue	63.2°	65.7°	23
Honolulu	63.1°	67.9°	26
Kahului	62.4°	64.8°	19

Daily minimum temperatures rose above long-term December average minimums on only 8 days at Honolulu, on 10 days at Lihue and on 7 days at Kahului. The month's lowest temperature, 55° F. at Honolulu, Lihue, and Kahului, approached within only a degree or two the lowest ever recorded there in December: 54°, 53°, and 52°, respectively.

Funnel clouds, most of them also associated with the cold fronts, were sighted on the afternoon of

the 3d over the Halemaumau fire pit at Kilauea Crater, Hawaii Volcano National Park; on the afternoon of the 17th over Kalihi Valley, Oahu; and on the afternoon of the 28th over the eastern slopes of the Waianae Mountains near Kunia, Oahu. None of these reached the ground.

On the morning of the 13th, however, at least five waterspouts in advance of an approaching cold front churned up the sea surface for about an hour and a half, as they formed and dissipated about

SPECIAL WEATHER SUMMARY - Continued

8 miles northwest of Barking Sands, Kauai.

From the night of the 14th and into the 15th, a heavy fall of snow blanketed Mauna Kea to about the 11,000-foot level, with drifts up to 2 feet deep in places. Although snow presumably fell on Mauna Loa as well, no reports were received to confirm this.

On the afternoon of the 17th, a 29-year-old man picking opihi, a shellfish, at Kawaihoa Point, Koko Head, Oahu, was drowned when swept off a ledge by a large wave and carried out to sea. Despite repeated drownings under similar circumstances, many of them well publicized and all preventable, they continue to occur.

The frequent frontal passages, each with its showers, still left the State drier than usual for the season. Since much of the rain was associated with the southwesterly winds that preceded the fronts, the islands tended to be relatively wetter in their western than eastern portions, a reversal of the usual pattern.

On Kauai, not a single gage reached its average December rainfall, with virtually all the eastern two-thirds of the island having less than half and in places less than one-fourth its monthly average. Oahu was similarly dry even in normally wet windward and mountain areas, with only a scattering of gages on the ordinarily dry western and southern coastal plains reporting their normal for the month

or a bit above.

Conditions on the central and southern islands were much the same. Maui's normally wet windward slopes had less than half their mean December rainfall, as did much of Molokai and Lanai. Hawaii Island was dry from the Kohala Mountains to Puna and southwestward to South Point, with most gages in those areas reporting well under half, and many less than one-fourth, their mean rainfall for December. In contrast, in most of the Kona District, rainfall was at or above its December average.

During the past two years (24 months) rainfall has been below its monthly mean for from 18 to 19 months along the northeastern coast of Hawaii Island from Kohala to Hilo and from sea level to elevations of 2,000 feet or more. In terms of the number of rainfall-deficient months, dry weather appears to have been more prolonged in 1971 than in 1972 in Kohala and the northern Hamakua coast, and in 1972 than in 1971 in the Hilo and southern Hamakua areas.

Long dry spells have also marked much of Maui. Thus, Kailua and Paakea in East Maui's rainy watershed have recorded rainfall deficiencies in 17 and 18 months, respectively, of the past 24, Haleakala Summit in 19, and Paia in 20. A number of other localities have been equally dry.

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DAILY PRECIPITATION

HAWAII
DECEMBER 1972

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																		
ANAOHOLA 1114	A	1.71	*	*		.15	.04			.14	*	*	.04					*	*	.75	.04		*	*	*		.12	.06		*	*	*	.37	*
BRYCESWOOD STA 985	A	3.78	*	*		.05		.01		.03								*	*	2.90	.07	T		*	*	*		.72		*	*	*	*	*
EAST LAHAI 934	A	2.37	*	*						.15	*	*						*	*	1.78	.09		*	*	*		.35		*	*	*	*	*	*
ELELE 927	A	2.37	*	*		T				.10		*						*	*	2.14	.06		*	*	*		.07		*	*	*	*	*	*
HALAULA 1110	A	1.45	*	*		.10	.05			.09	*	*	.10					*	*	.75	.07		*	*	*		.20	.03		*	*	*	.06	*
HALEMANAHU 1006	A	2.96	*	*		.04	.05	.10		.09	*	*	.01					*	*	1.76	.08		*	*	*		.72	.11		*	*	*	*	*
HUKILO 945	A	2.71	*	*						.52	*	*	.01	.02	.01	.01		*	*	1.30	.92	.09		*	*	*			*	*	*	.40	*	
ILILIULA INTAKE 1050	A	5.20	*	*						.13	*	*						*	*	2.74	.05		*	*	*		.76	.35		*	*	*	.73	*
INTAKE WAINIHA PC 1086	A	4.28	*	*		.03	.18		.03	.01	.02	.01	1.60	.55	.04	.19	.50		*	*	1.30	.05	*	*	*		.02		*	*	*	.09	*	
KANALOMULU 1075	A	8.59	*	*	.03	1.18		.03	.01	.02	.01	1.38	.55	.04	.19	.50		*	*	2.55	1.29	.45	*	.01	.01	.02	.05		*	*	*	.09	*	
KANEHA RESERVOIR 1092	A	2.37	*	*		.18	.02		.10	.18	*	*	.15					*	*	.60	.10		*	*	*		.50	.13		*	*	*	.39	*
KAPAA STABLES 1104	A	1.76	*	*						.13	*	*	.08					*	*	.88	.06		*	*	*		.40	.05		*	*	*	.16	*
KEALIA 1112	A	1.17	*	*		.04				.12	*	*						*	*	.69	.05		*	*	*		.12		*	*	*	.15	*	
KILAUEA 944	A	2.39	*	*	.05	.20		-	-	-	-	-	.03		-	.06	.10		-	.75	.79	.05		-	-	-	.01	-	-	-	.05	.30	*	
KILAUEA 1134	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KILAUEA FIELD 17 1135	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KILAUEA POINT 1133	A	2.09	-	.48	-	-	.03	-	.55	-	-	.02	.05	-	-	-	-	-	.04	.07	.06	-	-	-	.07	.02	-	.15	.03	-	.04	.17	.13	.18
KOLO 1033	A	2.42	-	.76	-	-	-	-	-	.17	-	-	-	-	.02	-	-	-	-	.30	.58	.07	-	-	-	-	-	-	-	-	-	-	.52	*
KOLGA 936	A	1.93	-	-	-	-	-	-	-	.11	-	-	-	-	-	-	-	-	-	1.44	.08	-	-	-	-	-	.30	-	-	-	-	-	.15	*
KOLGA MAUKA 994	A	4.07	-	-	-	.06	.04	.13	-	.20	-	-	-	-	-	-	-	-	-	2.67	.08	-	-	-	-	-	.79	.10	-	-	-	-	.18	*
KOLOKO RES 1137	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KUKUIULA 935	A	1.92	-	-	-	-	-	-	-	.14	-	-	-	-	-	-	-	-	-	1.51	.13	T	-	-	-	-	-	-	-	-	-	-	.14	*
LIHUE VARIETY STA	A	2.15	-	-	-	.03			.13	*	*	.03						-	1.10	-	-	-	-	.08	-	.05	.31	.09	-	-	.18	.15	*	
LIHUE 1020	A	1.78	-	-	.03	.01	.01	-	.04	-	-	-	-	-	-	-	-	-	1.07	.04	-	-	-	-	-	.05	.31	.09	-	-	.18	.15	*	
LIHUE WSD 1020.1 AP	//R	1.27	-	.03	T	T	T	T	.01	-	-	-	-	-	-	-	-	-	.58	.26	.15	-	-	-	T	.04	.02	.08	.01	T	.01	.01	.07	
MAKAHUNA POINT 940.1	A	1.71	-	-	.12	.01	-	.02	-	-	-	-	-	-	-	-	-	-	.27	.74	.13	-	-	-	-	.03	.20	-	.06	.01	.29	.01	.13	
MAKAMELI 965	A	2.48	.02	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.94	1.10	.03	-	-	-	-	.06	.20	-	.06	.01	.29	.01	.13	
HANA 1026	A	2.21	-	-	.64	-	-	-	-	-	-	-	-	-	-	-	-	-	.36	.66	.06	-	-	-	-	.02	.30	-	.05	.01	.29	.01	.13	
HOMIHI UPR CROSS 1083	A	14.83	*	*	*	*	*	*	*	.58	*	*	10.10	.09	.02	-	-	-	2.05	.98	.36	.09	-	-	-	.18	-	.09	-	.09	-	.89	-	.14
HOLCAA 1145	A	2.06	-	-	.58	-	-	-	-	-	-	-	-	-	.01	-	-	-	.45	.10	-	-	-	-	-	.16	.04	-	-	-	-	-	.14	
ISLAND OF MAUI																																		
HOUNT MAIALEALE 1047	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NIU RIDGE 1035	A	3.44	-	-	.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N WAILUA DITCH 1051	A	7.24	-	-	.17	.01	.15	.01	1.22	*	*	.04	-	.17	-	-	-	-	3.11	.70	.01	-	-	-	-	.05	.31	.09	-	-	.18	.15	*	
PRINCEVILLE RANCH 1117	A	3.38	-	.97	T	T	.01	.01	.36	.02	.01	.24	.15	-	-	-	-	-	.05	.14	.37	-	-	-	.02	.02	.41	.02	.01	T	.48	*	*	
PRINCEVILLE RANCH 1117	A	*	.01	*	.79	.02	-	-	.04	-	-	.11	-	-	-	-	-	-	.05	.14	.37	-	-	-	.02	.02	.41	.02	.01	T	.48	*	*	
PUEHU RIDGE 1040	A	3.79	-	.53	-	-	-	-	.05	-	-	-	.08	-	-	-	-	-	1.42	.81	.14	-	-	-	-	.07	-	-	-	-	-	-	.72	*
PUEHU 1013	A	2.80	-	.07	.03	.04	-	.32	.02	-	-	-	-	-	-	-	-	-	.51	.07	-	-	-	-	.07	.72	.07	-	-	-	-	.29	*	
RESERVOIR 6 1004	A	3.26	-	.05	.03	.10	.01	.05	.02	-	-	-	-	-	-	-	-	-	2.25	.07	-	-	-	-	.06	.61	.09	-	-	-	-	.45	*	
WAIHANA 930	A	1.84	-	.02	-	-	-	.02	-	-	-	-	-	-	-	-	-	-	1.68	.10	-	-	-	-	.04	-	-	-	-	-	-	.04	-	
WAILANA MOUNTAIN 990	A	6.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.50	
WAIAMI LOWER 1054	A	3.94	-	.01	.01	.01	.01	.29	.02	-	-	.06	.21	-	-	-	-	-	.40	.88	.70	-	-	-	.10	.05	.05	.82	.07	-	-	.61	*	
WAIAMI UPPER 1052	A	4.33	-	.03	.43	.03	.02	.02	.08	-	-	.06	.21	-	-	-	-	-	.10	1.55	.70	.05	-	-	.05	.05	.69	.30	-	.15	.30	.29	*	
WAIHANA 943	A	2.53	-	.43	.03	.02	.02	.08	-	-	.06	.21	-	-	-	-	-	-	.06	.58	.04	-	-	-	.06	.06	.30	-	.15	.30	.29	*		
WAILUA KAI 1065	A	1.69	-	.03	.03	.02	.02	.08	-	-	.06	.21	-	-	-	-	-	-	.71	.08	-	-	-	-	.06	.06	.30	-	.15	.30	.29	*		
WAIHANA 947	A	2.27	-	.02	.02	.02	.02	.08	-	-	.06	.21	-	-	-	-	-	-	1.11	.80	.08	-	-	-	.06	.06	.30	-	.15	.30	.29	*		
WEST LAHAI 931	A	1.79	-	.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.46	.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
ISLAND OF OAHU																																		
BERETANIA PUMPING STA	A	2.48	.02	.06	-	.01	-	T	-	-	-	-	-	-	-	-	-	-	.87	1.35	T	-	-	-	-	.05	-	-	-	.12	-	-	-	
CAMPBELL INO PK 702.5	A	2.86	T	.02	-	-	-	-	*	*	*	.03	-	-	-	-	-	-	.30	.73	1.70	-	-	-	-	.05	-	-	-	.01	T	-	-	-
CAMP 84 807	A	4.39	-	.05	.47	-	-	-	*	*	*	.03	-	-	-	-	-	-	.30	.73	1.70	-	-	-	-	.05	-	-	-	.01	T	-	-	-
CHURCH COLLEGE LAIE	A	2.58	-	.31	-	-	-	.29	-	-	.09	.03	-	-	-	-	-	-	.31	.70	.61	-	-	-	.04	-	.03	.03	.03	*	.04	*	.04	
CDCONUT ISLAND 840.1	A	3.01	-	.01	-	-	-	.07	.18	-	-	-	-	-	-	-	-	-	1.14	1.54	-	-	-	.01	.04	-	.04	-	-	-	-	.01	-	
EWA PLANTATION 741	A	-	-	-	.05	-	-	-	-	-	-	.31	*	-	-	-	-	-	1.09	1.66	-	-	-	-	.10	-	-	-	-	-	-	-	-	
HELEHUA INTAKE 8810																																		

DAILY PRECIPITATION

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		DECEMBER 1972																															
Station		Total	Day of Month																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ISLAND OF OAHU																																	
LAUPAHO 563	A	6.29	.67	2.70						.03						.13			.78	1.64				.02	.02	.05	.18			.01	.06		
KAUNAKAI 536	A	2.61									.13					.09			.93	1.03													
KEONELE PEAKS 551	A	3.38			1.20					.01			.40			.07	.16		.46	2.00													
KALAPU 536	A	3.36				.62													.46	1.69								.04				.07	
MAPULEHU 542	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAUNALO 511	A	2.62				.60			.04			.14				.08			.49	1.25								.02	.02				
HOLUKAI AP 524	A	2.77	T	.38					.01	.28	T	T				.38			.40	1.30	T						.02	T					
PUUOHOKI RANCH 542.1	A	1.51		.61					.08	.52				4.45													.20	.01		.05	.04		
WAIKOLU 540	A	9.20				1.05																3.70											
ISLAND OF LANAI																																	
KANEPOU 690	A	3.09						.23							.10						2.60									.16			
KAUHALAPAU HARBOUR 658	A	2.02				.05					.06				.05				1.61	1.86	.74							.15					
LANAI CITY 672	A	3.21				.16					.13								1.61													.42	
LANAI MALE 664	A	1.90						.35							.30															.15			
MAHANA 694	A	3.83						.20							.09	.11			1.35	2.00									.08				
MAHAUEA 676	A	2.00						.10																									
WAIKAEKUA 685	A	3.45																	1.00		1.72	1.90										.73	
ISLAND OF MAUI																																	
KAUWHI-252	A	5.10														.58			.70	1.02												2.09	
HALEAKALA B E S 434	A	4.76		.32	.02		.02		.03	1.28	.02	1.02				.61	.02		1.56	.58	.02		.05	.01	.01	.11	.05	.02	.03				
HALEAKALA RANCH 432	A	3.51			.21								1.02			.48			1.34	.46													
HALEAKALA RS 338	A	4.58		.24	.01					.40				.13		1.50	.06		1.04	.27												.10	
HALEAKALA SUMMIT 338.4	A	3.63		.05						.04				.01		.60	.02		2.90	.01													
HALTINALE 423	A	4.52			.55							1.05				.31		.14	1.75	.58							.10	.04	.10				
HAKAPOKO 485	A	3.84		.20	.01		.04		.02	.67	T		.03			.31	.05		.75	1.62	.46	.26	.03	.27	.10	.22	.01	.23					
HANA 356	A	5.32		.24	.07		.04		.04	.32	.04	T	1.75			.41		.02	2.20	.02						.23	.12	.11	.07	.02			
HANA AIRPORT 355	A	7.56	.04	.02	.14	.03	.02	.02	.04	.32	.04	T	.07	T		.32	.83	.49	.05	.12	.77	.68	.02	.03	.04	.50	.05	T	.27	.02			
HANAHULI 381	A	4.59		.34	.02																												
HOLUA CABIN 259.5	A	3.81						.08												3.73													
HONOKOHU 480	A	7.80																															
HONOKOHU 493	A	3.45			.25							.45				.11			1.70	.18							.45			.78			
HONOHU CULCH 341	A	3.80																											.06	.15		3.80	
KANAPALI AIRPORT	A	2.27		.32					T	.21						.12			.27	1.28	.06									T			
KAHOMA INTAKE 374	A	2.00																														2.00	
KAHULUI HSI 198 AP	A	2.17		.18			.01	.05	.14	.02	T					.25	.08	.10	.65	.49								.02	T			.17	
KAILIHI 430	A	6.62			.43																												
KAILUA 446	A	6.92		.51		.02	.01			.73	.02					.66	.04		.02	1.51	.36		.01	.02	.35	.76	.04	.01	.65	.41	.02	.78	
KAUAAULA INTAKE 375	A	4.54			.55						.17																						
KEAHUA 410	A	3.20	T	.21						.43	.01					.34	.08	T		1.78	.35												
KEANAE 346	A	1.47														.35	.01	.39	.33	.02													
KEAHAKAPU BEACH 260.2	A	1.82		.05						.03						.25	.07		1.04	.27													
KIHEI 311	A	4.95		.18						.14						1.02	.09		1.15	.50				.20	.16	.22		.12	.21			.93	
KIPAHULU 258	A	4.95		.18																													
KULA HEIGHTS 323.2	A	3.71		.47						.60						.56	.05		1.69	.34													
KULA SANATORIUM 267	A	3.18		.57	.01	T				.04						.47	.05	.01	.08	1.75	.20												
LAHAINA 361	A	2.13		.21						.16						.14			.52	.52	.09												
LAUNIPOKO INTAKE 376	A	5.60																															
LAUNIPOKO VILLAGE 372	A	2.19		.22						.02						.12			.13	1.48	.22												
LUPI UPPER 442	A	7.80																															
MAHINAHINA 466	A	2.55		.60					.22							.14			2.12	.42							.05						
NAKALELE FLO 60-497	A	3.44			.05		T	T	T	1.20	.07	T	T	T	T	1.29	.03	1.65	.70	.01	T						2.00			.72			
OLONAHU 332	A	5.46	.01	T	.47	T		T	T	1.20	.07	T	T	T	T	1.29	.03	1.65	.70	.01	T							T			.03		
OLONAHU 296	A	1.53		.26												.19		.03	.31	.66	.08												
PAAKEA 350	A	6.68	.04	.24	.05		.03	1.35		.48	T					.42	.10	.05	1.04	.33			.10	.26	.89	.03	.30	.50	.92				
PAIA 406	A	2.60		.14			.03									.28	.04	.01															
PANILEI HULU 259.2	A	12.47																			6.97												
POHAKA BRIDGE 307.2	A	1.93		.05								.15				.25		.03	1.01	.30	.14												
POLIPOLI SPRINGS 267.2	A	4.88																															
PUOHOKA 2 343	A	9.00																														9.00	
PUUNENE 396	A	2.31		.12				.04	.24							.22	.07	.31	.97	.30								.04	T				
SPRECKELSVILLE 400.2	A	1.97		.11				.02	T		.17					.20	.05	.02	.98	.34								.01	T				
TWIN GATES 201.3	A	2.99		.50															1.93														
UKULELE 333	A	5.61																														5.61	
UKUMEHANE 301	A	1.00		.19							</																						

DAILY PRECIPITATION

Continued

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Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KEALAKEKUA 26.2		4.53			.23			T			1.75	.06		T		.64	.22			1.55	.07						.01							
KEHENA 181.2	A	4.62	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
KIDULAKA A & F 6	A	4.63																																
KIPA 89.2	A	6.38								.01	.03		.01			.31	.21			.03	1.23			.48	.36	.12	.17	.49	.72	.33	.07	.06		
KOHALA MAULILI 176	A	4.63		*		.62	.12					.35				.85	*	.16		1.34	1.27		.02					.79	.26					
KOHALA MISSION 175.1	A	5.66			.47	.08	.09	T			.05	.15	T			.78	.15			1.54	1.05	T												
KOIAWE LOWER 196	A	5.90	.50	*	*			*		.22		.05	*	*	*	1.98							2.10	.03	.07	.03	.44	.16	.06	.45	.06	*	*	
KONA (KAIIUA) 68.3	A	3.89				.40		.01				.44			.78				.13	1.89	.24									1.10				
KONA VILLAGE 93.8	A	4.04																	.13	1.89	.24											.86		
KUKAIUA 222	A	7.21		.05	T	.87	T		.18	1.30	.03	T	.02	.01	.46	.04			2.90	.23			.18	.02		.03	.80	.01	.02			.11		
KUKUIHAELE MIC 199	A	6.51				.22	.22			1.23	.02					.74	.29	*		.45	2.10		.09	.20		.05	.90					*		
KUKUIHAELE MILL 206	A	4.62		*	*	.22	.05	.03				.93		.01		.72		*		.21	1.26					.20	.80	.01	.02			*		
KULANI CAMP 79	A	3.23			.20	.10	.15				.14		.04		.05	.35	.50	*	.16	.21	1.26					.10		.06	.20	.10	.04	*		
KULANI MAUKA 76	A	1.81		*	.10	*	*	*	*		.30	*	*	*	*	*	.95	*	*	*	*		*	.15	*	*	*	*	*	*	*	.31	*	
KULANI SCHOOL SITE 78	A	4.52				.93						.29				1.18	.11			1.70	.31											*		
LANIHAU 68.2	A	3.46					.58					.94								.68	1.26											*		
MAKAMALAU 103	A	1.60		*	*	.70										.40				.40	.10									T	*	*		
HANUKA 2	A	3.90														.03	3.13				.74											*		
HAUNA KEA DBS 111.2	A	3.90																			.38											*		
HAUNA LOA SLOPE DBS	A	3.90														.03	3.13				.74											*		
MIDDLE HOLUALOA 68.1	A	3.50				.56	*	*	*	*	*	.25	*	*	*	1.16		*	*	1.53	*	*	*	*	*	*	*	*	*	*	*	*	*	
MIDDLE PEN 147.1	A	4.22				.59	*	*	*	*	*	*	*	*	*	1.19	*	*	*	2.44	*	*	*	*	*	*	*	*	*	*	*	*	1.17	
MOAULA 18	A	3.05									1.17																						*	
MOUNTAIN VIEW 91	A	3.05				.03	T	.02		.04	*	.22		.20	.01	T	T	.11	.43		.12	.10	.01	.15	.32	.15	.15	.44	.27	.45	.07	*		
NAALEHU 14	A	.96				.03	T		T	.04	*	.22		.20	.01	T	T	.11		.25	.21	.08							.03	*	*	*		
NAPOOPOO 28	A	3.47		*	*	.19	*	*	*	*	*	1.17	*	*	*				.62	*	*	*	*	*	*	*	1.49	*	*	*	*	*	*	
NIULII 179	A	3.54		*	*	.20	.03	*	*	*	*	.15	*	*	*	.74			.19	.85	.72	*	*	*	*		.40	.10		.16	*	*		
OKALA 223	A	5.75			.29	.85	.01	.02	T	T	.92	.10	.03	T		.02	.27	.02	.01	.33	1.70	T	T	.14	T	.01	.08	.89	.01	.05		T		
OPIHIHAELE 2 24.1	A	3.33		.06	.22	*	*	*	*	.06	*	.22	*	*	*	.45	.08	T		1.90	T											.76	*	
ORCHID LAND EST 91.5	A	3.33				*	*	*	*							.95							.44	*	*	*	*	*	*	1.82	*	*		
PAAUHAU 217	A	6.03			.03	.50		.02		1.33	.02	*	*	.02		.69	.05	*		1.02	1.28			.11		.06	.90					*		
PAUULO 221	A	7.23		.03	.61	.03	.01	T	.02	1.16	1.42	.03	T	.05		.49	.08	*		1.17	2.34	T		.16	.01		.01	.49	.02	.01		.05	*	
PAHALA 21	A	1.23			.03	*	*	*	*							T	.16	.35	*	.34	T	.25												
PAHOA 65	A	6.20				.04	.04	.06	.04		.96	*	*	*	*	.05	.03	.19	.56	*		.69	.85		.08	.30	.54	.30	.30	.44	.30	.35	.08	
PAKAO 37	A	4.80																															4.80	
PAPAIAKU 144.1	A	4.47								.01	.42					.12	.33				.59	T				.42	.21	.13	.22	.27	.79	.53	.02	.41
PAPAIAKU HAUKA 140.1	A	5.07								.03	.22					.27	.17			.02	.66	*				.54	.39	.32	.04	.96	.82	.38	.06	.19
PIIHONUA 89	A	4.50		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
POHAKULDA 107	A	2.64		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
PUAKO 95.1	A	3.54	T			T										1.25	.12	T		1.83	.34													
PUU KIHU 120	A	2.08	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.08	
PUU LAU 102.1	A	4.20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.20	
PUU LEHUA 73	A	4.27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4.27	
PUU MALI 113	A	3.43	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.43	
PUU OO 82	A	1.43			.02	.05					.02	.03				.20	.65		.02	.04	*	.08				.01	T	.01	.03	.06	*	.09		
PUU HAAWAA 94.1	A	4.61				T	.09			*		.05	.07	.03	*	1.10	.47	*	*	1.91	.85	*							.09	*	*	*	*	
SADOLE ROAD 1 84	A	1.40		.15	*			*	*	*						.55		*	*	*	*	*		.70	*	*	*	*	*	*	*	*	*	
SOUTH POINT CORRAL 3	A	1.14		*		.13	*	*	*	*								*	*	*	*	*								*	*	*	.29	
UHIKOA 118	A	5.39			.12	1.29	.39	.05	*		.15	1.54		.33		.13	.57			.27	.47	*					.04		*	*	*	*	*	
UPOLU POINT USCG 159.2	A	5.33			.14	.08			.01		.09					.95	.05			2.05	.72	*				.19		.56	.10		.39	T	*	
WAIKAE SCD 88.2	A	4.06			.01		T				.16			.04		.27	.60			.16			.01	.55	.16	.15	.15	.41	.70	.26	.34	.09	*	

SUPPLEMENTAL DATA

	Wind (Speed — m.p.h.)						Relative humidity averages- percent				Number of days with precipitation								Percent of Possible sunshine	Average sky cover sunrise to sunset
	Resultant Direction	Resultant Speed	Average	Fastest mile	Direction of fastest mile	Date of fastest mile	Standard of Time				Trace	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 and over	Total			
							150TH MERIDIAN													
02	08	14	20																	
HILO WSO 87 AP	30	1.0	6.4	26	SE	31	87	82	70	83	6	5	7	3	0	0	21	39	6.7	
HONOLULU WSO 703 AP	36	2.9	10.5	28	NE	23	78	75	57	68	9	4	3	0	0	1	17	38	5.5	
KAHULUI WSO 398 AP	7	3.5	10.8	28	SW	18+	89	84	61	77	8	5	6	1	0	0	20	63	4.9	
LIHUE WSO 1020.1 AP	36	2.0	8.5	23	SW	16	81	79	64	78	6	9	2	1	0	0	18	46	5.6	

DAILY TEMPERATURES

HAWAII
DECEMBER 1972

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	61 43	58 46	59 48	60 46	63 48	61 46	64 43	55 45	59 41	58 46	57 45	58 49	63 50	62 54	58 54	55 46	63 45	66 45	64 44	68 53	67 46	68 52	65 52	65 44	63 52	65 44	63 53	66 37	63 37	60 44	61.5 46.5	
KILAUEA POINT 1133	MAX MIN	80 74	78 78	79 79	79 79	79 78	75 75	75 78	80 79	81 80	83 83	79 79	78 80	80 80	83 81	76 81	67 80	79 59	80 59	77 69	76 65	78 68	83 69	81 63	78 63	81 65	77 65	80 69	83 66	79 66	81 73	78.5	
LIHUE WSO 1020.1 AP	MAX MIN	78 58	80 65	78 61	78 61	78 66	78 65	77 61	76 64	76 61	76 56	77 55	77 58	78 59	77 61	80 70	76 70	77 62	77 59	78 58	77 70	78 72	78 69	80 67	79 70	79 71	79 66	78 64	80 63	81 63	77 56	77.8 63.2	
MAKAHUEA POINT 940.1	MAX MIN	81 59	83 68	83 62	83 61	77 63	79 66	81 64	74 82	82 67	77 60	79 58	80 59	80 61	82 64	78 66	83 66	76 71	81 67	77 60	79 59	80 59	77 69	76 65	78 68	83 69	81 63	78 63	81 65	77 60	83 66	79.6 63.9	
MANA 1020	MAX MIN	76 61	80 67	75 62	84 67	80 65	81 62	80 64	88 62	88 62	78 64	78 65	78 66	77 66	77 68	80 69	78 62	76 62	76 62	78 69	82 68	75 65	80 68	82 69	78 64	80 69	87 67	80 69	79 56	83 61	80 53	79.3 64.1	
NIU RIDGE 1035	MAX MIN	74 56	76 57	77 58	78 57	78 56	78 55	80 58	78 59	76 54	77 55	77 55	74 57	74 58	75 59	75 60	75 58	77 58	75 59	78 60	75 57	78 53	78 53	78 57	78 57	77 58	80 60	80 55	80 54	77 60	77 56	77.0 57.0	
WAIHI LOWER 1054	MAX MIN	76 51	78 52	77 52	76 53	76 55	77 58	76 55	76 55	69 50	74 53	74 47	75 49	75 50	76 51	78 54	75 65	75 64	78 63	76 48	78 64	78 63	76 63	78 64	78 63	76 65	78 61	74 63	76 64	78 54	77 48	76.0 56.8	
ISLAND OF OAHU																																	
EWA PLANTATION 741	MAX MIN	81 58			80 59	79 60	82 61	81 60	83 61			79 53	79 55	81 56	80 57	78 58			82 60	73 61	75 58	77 59	78 63				83 63	80 62	79 60				
HONOLULU WSO 703 AP	MAX MIN	78 58	81 68	82 62	80 61	80 61	80 63	81 61	79 61	79 61	78 57	79 55	81 57	82 58	79 64	81 63	80 71	74 66	78 58	78 56	79 68	81 70	82 71	84 68	82 65	82 70	81 68	80 64	81 65	84 62	77 59	80.0 63.1	
HONOLULU SUBSTA 704	MAX MIN	76 64	79 68	77 64	75 65	75 66	78 67	76 65	76 66	75 66	76 62	78 63	80 63	79 62	76 65	76 65	79 68	71 64	71 64	73 63	74 62	74 69	77 70	78 70	79 70	77 71	78 70	78 68	77 70	78 66	75 63	76.6 66.3	
KAHUKU 912	MAX MIN	78 58	80 62	82 72	83 75	78 68	78 66	78 66	78 66	77 66	77 65	76 55	82 68	78 60	80 65	79 68	80 68	88 68	76 67	79 68	79 69	81 71	80 72	80 71	81 72	79 72	80 72	82 75	79 73	82 71	79 67	79.6 67.5	
KANEOME MAUKA 781	MAX MIN	78 63	78 65	77 64	76 65	78 63	78 65	77 63	78 64	79 66	75 61	76 64	78 63	78 64	78 67	80 65	78 73	78 68	73 66	78 62	76 64	77 68	77 69	78 70	76 70	73 67	78 66	78 67	79 68	77 62	81 63	77.2 65.4	
LOUALALEI 804	MAX MIN	78 56	75 57	80 58	80 61	84 61	83 61	80 59	74 61	79 59	80 58	79 53	86 56	86 55	80 60	79 61	77 62	78 60	71 59	77 59	79 64	80 54	86 64	80 62	80 66	83 70	77 64	80 64	78 62	82 57	78 60	79.7 60.1	
MAKAPOU POINT 724	MAX MIN	74 65	77 68	75 63	73 64	75 66	74 66	73 65	74 63	73 64	73 63	74 61	76 61	65 65	75 65	75 67	76 72	79 68	79 63	76 59	72 63	72 65	74 69	74 61	74 69	76 69	73 63	75 65	77 70	75 65	75 70	74.3 65.1	
UPAEULA 870	MAX MIN	80 53	77 55	79 59	81 64	82 51	80 55	70 54	80 56	79 59	81 62	75 52	80 49	79 54	71 54	79 57	70 69	69 60	65 55	70 54	80 55	70 56	75 60	77 66	79 63	79 63	76 66	79 62	80 62	76 63	79 61	76.6 57.7	
PRI WAIHAWA 820.2	MAX MIN	75 52	78 53	74 58	79 53	75 60	78 58	78 56	78 57	71 60	72 53	75 49	77 49	75 52	76 54	82 55	75 68	82 67	70 56	70 54	75 53	77 62	77 66	77 64	79 60	80 59	78 58	80 58	81 56	77 57	80 57	76.6 57.2	
WAIALEE 896.3	MAX MIN	76 63	79 66	80 65	78 66	78 67	84 67	78 64	78 65	78 64	77 63	76 65	77 66	80 63	77 66	79 67	83 70	79 69	72 66	75 63	77 65	77 69	71 67	79 69	79 68	78 67	77 65	79 67	80 62	80 65	78.0 65.9		
WAIALUA 847	MAX MIN	76 57	80 60	80 63	84 62	78 60	78 59	77 67	77 62	73 63	75 60	75 54	77 55	76 60	77 61	81 60	84 72	79 66	81 64	81 55	75 56	77 60	80 66	81 64	81 70	80 79	80 59	80 60	78 59	81 60	82 60	78.7 60.7	
WAIKIKI 717.2	MAX MIN	81 56	80 65	81 59	81 60	80 62		84 60	82 63	78 63	79 53	78 56	79 57	79 62	79 62	82 72	82 68	74 64	76 55	79 59	79 81	81 82	82 83	83 83	83 85	81 67	81 63	81 65	83 61	80.3 62.2			
WAIMANALO EXP FARM	MAX MIN	78 59	78 62	82 62	77 61	77 65	78 64	78 61	78 61	79 61	78 62	77 56	78 56	78 56	78 62	80 64	79 73	80 69	80 64	80 61	80 62	80 70	78 69	79 71	79 68	78 70	79 70	80 66	80 67	81 59	81 62	78.6 63.5	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	76 58	77 61	77 67	76 67	76 61	71 62	75 65	76 64	75 65	74 67	74 56	76 59	80 59	76 57	76 57	74 62	78 70	78 70	73 63	75 65	75 67	75 69	77 69	79 66	78 66	77 68	79 66	78 63	78 64	77 62	79 63	76.3 63.8
ISLAND OF LANAI																																	
LANAI CITY 672	MAX MIN	75 56			78 58	77 58	78 58	76 55	76 54			76 54	76 57	75 55	74 54	74 55			79 57	70 57	68 55	67 55	70 59				76 58	72 58	75 58	76 59			
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	58 41	61 42	57 42	53 42	65 44	65 46	62 38	54 38	57 33	57 34	52 41	50 43	54 44	62 44	64 42	57 43	62 51	64 52	62 43	55 35	62 45	67 50	61 46	68 46	65 40	61 36	60 37	65 39	63 37	68 37	56 40	60.1 41.4
HALEAKALA SUMMIT 338.4	MAX MIN	56 43	48 38	44 36	47 35	54 46	56 46	58 40	49 36	44 35	50 32	42 32	42 32	45 36	50 33	52 34	45 33	48 38	48 42	42 34	52 37	42 42	51 40	54 40									49.0 37.3
HANA AIRPORT 355	MAX MIN	77 64	80 64	81 66	76 62	77 63	77 62	79 60	80 62	79 62	74 60	74 59	75 62	77 62	77 62	78 64	84 62	84 68	81 61	75 67	77 72		77 65	78 69		81 68	80 71	79 68	78 69	78 68	80 70	79 61	78.2 63.9
KAANAPALI AIRPORT	MAX MIN	77 63	79 60	80 66	77 61	77 60	77 63	78 63	77 66	77 66	75 63	76 62	76 62	77 59	76 61	76 64	79 76	82 74	82 72	77 64	73 63	75 65	77 67	78 71		80 65	81 65	79 61	79 61	79 64	80 65	77.7 64.5	
KAHULUI WSO 390 AP	MAX MIN	84 62	84 60	79 68	80 59	79 61	79 59	79 59	78 60	78 59	76 56	77 58	78 59	79 55	80 58	78 62	80 73	84 71	82 71	74 61	78 59	80 68	80 69	80 70	83 68	84 60	81 69	82 69	83 65	82 67	80 60	77 60	79.9 62.4
KAILUA 446	MAX MIN	73 61	75 62	81 62	81 61	82 60	81 61	82 59	82 60	82 61	72 57	72 59	70 60	73 60	73 60	75 60	80 61	83 61	87 61	81 56	75 56	79 56	84 60	74 65		82 65	82 65	75 65	74 63	74 64	74 62	75 61	77.4 61.0
KEAWAKAPU BEACH 260.2	MAX MIN	82 62	85 65	86 64	82 61	81 58	83 58	83 62	82 58	82 65	82 62	80 62	82 61	81 61	80 61	80 61	83 74	87 73	87 73	81 63	75 63	79 56	84 64	86 69		83 61	82 60	84 57	82 61	84 62	84 61	82.1 61.6	

Continued

DAILY TEMPERATURES

HAWAII
DECEMBER 1972

Station		Day of Month																															DECEMBER		1972
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average		
KULA SANATORIUM 267	MAX MIN	72 57	76 57	73 56	72 52	68 53	63 53	68 53	69 54	68 54	67 53	70 52	69 53	71 50	75 54	74 56	67 57	75 64	77 64	69 56	64 52	69 52	70 53		72 55	69 56	70 55	72 51	68 52	71 54	68 55	69 56	70.2 54.6		
LAHAINA 361	MAX MIN	83 61	82 62	83 59	83 57	84 59	83 59	82 59	83 60	82 62	83 57	80 59	82 59	82 57	79 58	79 60	81 62	83 63	78 63	74 61	80 60	83 59	84 59	85 59	84 60	84 61	84 61	81 61	84 60	85 61	86 60	75 61	82.0 60.0		
WAILUKU 386	MAX MIN	78 63			84 62	77 62	76 62	77 62	77 62			77 57	76 61	77 58	79 59	80 60				87 62	78 63	73 62	75 66	77 67				79 65	79 62						
* * *																																			
ISLAND OF HAWAII																																			
HAIRNA 214	MAX MIN	79 61	78 62	78 63	70 64	74 63	77 65	77 63	78 62	79 63	72 63	75 63	74 65	73 64	75 62	75 62	76 62	78 64	81 66	83 65	67 57	76 58	75 65	74 65	76 64	79 65	77 66	72 64	77 62	77 65	77 61	79 64	76.1 63.2		
HAWAII VOLCNS NP HO 54	MAX MIN	69 49	70 54	62 55	64 53	60 55	66 56	65 45	67 53	65 50	67 50	60 53	62 56	70 52	64 49	65 50	61 51	68 50	74 50	67 59	60 46	66 48	72 51	70 52	61 50	69 50	67 50	64 52	66 51	64 53	62 51	63 47	65.5 51.5		
HILO WSO 87 AP	MAX MIN	80 59	79 59	78 61	78 63	78 64	79 66	81 60	80 61	80 66	77 67	78 67	78 66	79 64	79 63	72 67	79 62	81 66	86 65	75 66	77 58	79 59	80 61	79 67	81 65	82 66	79 65	81 65	79 66	81 66	83 65	79.2 63.6			
KAINALIU 73.2	MAX MIN	76 58	78 61	77 61	77 60	77 60	76 56	74 58	77 58	78 58	78 60	73 58	75 58	74 60	77 58	77 58	69 54	83 63	82 68	82 60	66 54	75 54	73 55	75 57	76 59	77 58	77 58	77 59	77 58	76 58	75 58	76 59	76.1 58.9		
KAMUELA 192.2	MAX MIN	75 45	73 48	70 56	68 54	68 53	70 52	72 48	74 51	73 50	64 56	70 58	73 55	68 49	73 54	73 58	67 57	68 54	75 55	78 49	62 53	63 53	65 54	65 55	68 49	76 50	74 55	67 55	70 45	74 48	72 45	75 47	70.4 51.7		
KEAAU 92	MAX MIN	80 59	79 59	79 63	75 63	75 63	77 64	78 61	80 61	80 60	75 63	77 64	76 65	78 63	78 62	78 62	69 60	80 60	83 65	89 58	70 57	78 57	79 62	80 64	78 66	79 65	80 63	78 63	79 64	79 65	80 63	80 63	77.9 62.6		
KEALAHEKUA 26.2	MAX MIN	78 59	80 61	77 62	79 60	79 61	78 60	78 58	77 59	78 60	78 62	72 58	77 63	75 60	78 59	77 62	70 58	80 64	82 68	83 62	66 55	75 53	76 56	77 57	77 60	77 59	78 59	77 59	76 58	77 58	77 58	76.7 59.5			
KOHALA MISSION 175.1	MAX MIN	79 61	78 61	82 63	74 65	77 63	74 61	77 62	77 62	78 62	73 64	74 61	86 64	72 63	76 61	79 62	75 62	82 66	84 70	84 65	66 62	73 62	74 67	75 66	75 65	79 65	78 65	74 65	77 60	76 61	76 60	79 60	76.9 63.0		
KONA (KAILUA) 68.3	MAX MIN	82 67			83 64	84 65	84 68	81 67	82 66			84 66	80 68	81 67	82 65					85 65	83 66	72 60	62 63	79 64											
KULANI CAMP 79	MAX MIN	63 38	56 43	65 44	61 45	55 43	60 38	64 39		61 42	57 42	59 45	65 49	65 42	59 40	69 42	67 43	60 46	72 53	70 42	61 44	77 44	63 45	66 49	66 44	65 44	62 45	62 45	61 45	62 48	60 43	63.2 44.4			
MAUNA LOA SLOPE 085	MAX MIN	56 41	56 40	55 37	54 35	56 35	54 35	60 35	54 41	57 40	51 35	51 35	53 36	58 38	54 37	39 34	45 35	49 38	50 38	46 33	45 29	49 33	51 35	54 36	53 33	53 33	55 33	53 36	56 34	51 34	53 31	48 31	52.2 35.6		
MOUNTAIN VIEW 91	MAX MIN	77 53	76 54	76 54	76 59	70 58	73 58	74 54	75 54	76 56	76 56	69 60	71 58	73 58	74 56	74 56	80 56	80 56	83 66	87 48	73 49	67 49	73 57	87 59	87 59	87 59	87 59	70 58	74 60	71 61	76 58	76 58	76.1 56.8		
MAALEHU 14	MAX MIN	80 61			83 62	75 61	78 63	77 65	77 62			80 62	79 66	75 66	76 67					85 62	84 71	76 59	78 78					80 66	78 65	77 67					
OKALA 223	MAX MIN	79 63	78 63	78 64	69 64	71 63	75 64	76 62	77 63	76 63	71 63	73 63	74 63	76 64	75 63	76 63	75 63	78 63	82 64	85 67	68 59	76 59	76 64	76 64	76 64	78 68	79 61	73 65	78 65	78 65	78 63	79 63	76.2 63.5		
OPIHIHAE 2 24.1	MAX MIN	75 55	77 61	76 57	75 58	75 57	72 57	75 55	73 56	75 57	71 58	73 58	74 59	75 58	76 58	68 55	81 56	80 60	85 62	67 54	70 52	77 52	74 54	75 56	77 57	75 57	75 58	73 56	74 55	73 56	75 56	81 57	74.9 56.7		
PAHALA 21	MAX MIN	79 59			81 59	74 59	79 59	78 59	76 60			80 60	80 63	73 67	72 62	76 63				83 60	82 68	75 56	78 54	82 58				83 60	78 60	79 64	77 63				
PUAKO 95.1	MAX MIN	81 62	80 62	79 65	79 62	84 67	83 64	80 65	80 62	82 65	84 68	78 65	80 67	76 63	79 65	79 65	75 61	83 63	84 68	85 67	68 52	68 54	80 62	80 70	78 65	81 63	80 65	83 65	82 61	80 64	81 60	80 63	80.2 63.5		
UPOLU POINT USCG 159.2	MAX MIN	81 66	80 65	80 67	77 68	79 67	78 68	79 69	80 67	79 67	77 67	78 67	79 70	79 67	78 68	80 65	80 66	81 66	84 67	83 66	71 64	77 71	78 72	78 64	87 67	89 70	80 68	78 68	78 67	80 66	84 65	79.7 67.8			

EVAPORATION AND WIND

Station		Day of Month																															Total or Avg.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP WIND MAX MIN	.09 54 55	.14 71 55	.10 47 59	.14 42 60	.22 96 59	.19 89 63	.16 56 60	.07 43 60	.30 81 58	.32 79 56	- 69 52	.10 64 52	.12 56 55	.18 65 56	.20 57 56	.12 97 59	.14 129 67	.03 47 66	.07 40 58	.23 67 55	.15 126 54	.29 174 62	.23 189 64	.26 122 66	.19 105 66	.13 152 66	.29 186 66	.17 91 62	.11 51 62	.10 63 62	.18 80 62	5.198 2668 59.8
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP WIND MAX MIN	.15 18 56	.26 28 64	.16 28 59	.18 16 58	.19 4 58	.15 0 57	.16 4 57	.17 11 57	.13 17 54	.19 10 53	.19 9 53	.22 16 53	.21 15 53	.21 12 55	.17 5 57	.21 16 59	.22 8 61	.07 3 65	.09 13 59	.15 19 52	.15 15 51	.15 15 56	.24 24 58	.15 15 62	.15 8 60	.06 2 60	.21 11 59	.19 3 59	.11 4 59	.09 2 57	.21 80 57	5.19 403 77.3 57.4

See Reference Notes Following Station Index

PRECIPITATION MEASURED IN STORAGE GAGES

HAWAII
DECEMBER 1972

Station	Observation date	Amount since last obs.	Snow on ground	Station	Observation date	Amount since last obs.	Snow on ground	Station	Observation date	Amount since last obs.	Snow on ground
MAUI (CONTINUED)	JAN 29	14.00		LAILOA MAUI	1972			ISLAND OF MAUI (CONTINUED)	1972		
	FEB 26	10.00			JAN 29	4.00			JAN 29	24.75	
	MAR 31	10.00			FEB 26	11.50			FEB 26	40.40	
	APR 29	11.00			MAR 30	6.50			MAR 30	13.00	
	MAY 28	4.00			APR 29	11.00			APR 29	36.00	
	JUN 30	10.00			MAY 28	4.00			MAY 28	19.60	
	JUL 31	11.00			JUL 31	4.00			JUL 31	20.40	
	AUG 30	8.00			JUL 31	4.20			AUG 30	19.00	
	SEP 30	11.00			AUG 30	10.00			SEP 30	26.00	
	OCT 31	6.00			SEP 30	2.00			OCT 31	11.00	
	NOV 30	11.40			NOV 4	9.00			NOV 4	30.00	
	DEC 28	11.00			DEC 3	6.50			DEC 3	20.00	
					DEC 28	7.00			DEC 28	12.00	
				TOTAL		85.70		TOTAL		272.15	
HONOLULU FLD 49 494	1972			HONOLULU FLD 49 494	1972			MOKUPEA 475	1972		
	JAN 31	10.00			JAN 31	2.32			JAN 31	3.70	
	FEB 29	17.60			FEB 29	6.13			FEB 29	11.93	
	MAR 31	7.00			APR 3	5.41			APR 3	5.72	
	APR 28	17.60			MAY 1	2.55			MAY 1	13.80	
	MAY 31	7.20			MAY 31	1.64			MAY 31	2.45	
	JUN 30	7.80			JUN 30	1.04			JUN 30	2.53	
	JUL 31	7.80			JUL 31	1.34			JUL 31	3.32	
	AUG 31	7.00			AUG 31	3.39			AUG 31	7.30	
	SEP 30	6.00			OCT 2	1.79			OCT 2	1.60	
	OCT 31	11.00			OCT 30	2.79			OCT 30	5.00	
	NOV 30	6.00			NOV 30	1.86			NOV 30	2.20	
	DEC 31	2.40			DEC 29	6.11			DEC 29	5.58	
				TOTAL		33.37		TOTAL		65.13	
PUU PAKI 352	1972			WAILUA IKI 348	1972			TOTAL	1972		
	MAR 30	49.00			MAR 30	35.00			MAR 30	35.00	
	JUN 30	41.00			JUN 30	49.00			JUN 30	49.00	
	SEP 30	40.00			SEP 30	29.00			SEP 30	29.00	
	DEC 29	36.00			DEC 29	37.00			DEC 29	37.00	
								TOTAL		150.00	

LATE REPORTS DAILY PRECIPITATION

HAWAII

Continued

Continued

Station	Total	Day of Month																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
* * *																																
MARCH 1972																																
MOUNT WAIALEALE 1047 R	8.66	3.27	3.50	.31	.28		.04	.04												.24		.04	.94									
* * *																																
APRIL 1972																																
MOUNT WAIALEALE 1047 R	57.75		.35	1.85		.79	3.70	.16	.71	4.21	.51	.43	.47	1.30	9.02	8.94	1.61	4.25	7.80	3.31	2.20	.55	1.18	.28	.31	.20	.39	.35	.91	1.85	.12	
* * *																																
MAY 1972																																
MOUNT WAIALEALE 1047 R	24.02	.71	.24	1.02	.04			1.06	.08	1.22	.20	.39	1.77	1.54	3.78	1.57	.16	.20	.08		1.06	3.43	.31	1.02	.51	.04		.87	1.57	.91	.24	

STATION INDEX

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	OBSERVATION TIME AND TABLES				OBSERVER	STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	OBSERVATION TIME AND TABLES				OBSERVER
							TEMP.	PRECIP.	EVAP.	SPECIAL									TEMP.	PRECIP.	EVAP.	SPECIAL	
LAKE OF KAUAI											ISLAND OF MOLOKAI												
LAKE OF KAUAI	883	A	212	KOOLAUPA	22 57	159 32	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	884	A	214	KOOLAUPA	22 08	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	885	A	215	KOOLAUPA	22 15	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	886	A	216	KOOLAUPA	22 22	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	887	A	217	KOOLAUPA	22 29	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	888	A	218	KOOLAUPA	22 36	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	889	A	219	KOOLAUPA	22 43	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	890	A	220	KOOLAUPA	22 50	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	891	A	221	KOOLAUPA	22 57	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	892	A	222	KOOLAUPA	23 04	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	893	A	223	KOOLAUPA	23 11	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	894	A	224	KOOLAUPA	23 18	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	895	A	225	KOOLAUPA	23 25	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	896	A	226	KOOLAUPA	23 32	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	897	A	227	KOOLAUPA	23 39	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	898	A	228	KOOLAUPA	23 46	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	899	A	229	KOOLAUPA	23 53	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	900	A	230	KOOLAUPA	24 00	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	901	A	231	KOOLAUPA	24 07	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	902	A	232	KOOLAUPA	24 14	159 38	1010	7A			MCROYE SUGAR CO.	PUNOH KAU 545.1	8261	OT	MILOKAI	21 05	159 36	1010	7A			WESLEY MERRILL DAVIS	
LAKE OF KAUAI	903	A	233	KOOLAUPA	24 21	159 38	1010	7A			MCROY												

STATION INDEX

HAWAII
DECEMBER 1972

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE 1718)	
ISLAND OF HAWAII												
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	475	BA				CAPT COOK CATTLE CO
MIDDLE PEN 147-1	A 6270	01	N KOHALA	2	20 08	155 30	1380	VAR				KAMUA RANCH
MOAULA 18	A 6407	03	KAU	19	11	155 30	800	NO				HAWAIIAN RANCH CO
MOUNTAIN VIEW 91	A 6552	02	PUNA	3	19 33	155 07	673	BA				PUNA SUGAR CO
NAALEHU 1A	A 6588	03	KAU	19	04	155 35	1330	BA				HUTCHINSON SUGAR CO
NAPOOPOO 28	A 6597	04	S KONA	19	28	155 55	395	TA				KONA EXPERIMENT STA
NIULI 179	A 6800	01	N KOHALA	2	10 14	155 45	75	BA				KOHALA CORPORATION
OKALA 223	7131	02	N HILO	20	01	155 17	430	TA				LAUPAHEHUE SUGAR CO
OPHIHIALE 2 24-1	7166	04	S KONA	19	16	155 53	1270	TA				MISS C LEONARD
ORCHARD LAND EST 91.5	A 7185	02	PUNA	3	19 34	155 00	445	VAR				BOARD OF WATER SUPPLY
PAALUHA 217	7204	01	HAWAIIA	2	20 05	155 26	415	TA				PAALUHA SUGAR CO
PAALUHA 221	7312	01	HAWAIIA	2	20 03	155 22	800	TA				HAWAIIA HILL CO
PAHALA 21	7421	03	KAU	3	19 12	155 29	870	BA	BA			HAWAIIAN AGR CO
PAHOLA 65	7457	02	PUNA	3	19 30	154 57	870	TA				PUNA SUGAR COMPANY
PAKAO 37	A 7463	03	KAU	3	19 22	155 28	5000	NO				HAWAIIAN RANCH CO INC
PAPAIOU 144-1	7711	02	S HILO	19	47	155 06	200	TA				HAUNA KEE SUGAR CO
PAPAIOU MAUKA 140-1	7721	02	S HILO	19	47	155 08	1270	TA				HAUNA KEE SUGAR CO
PIHONUA 89	A 8051	02	S HILO	19	44	155 10	1730	NO				STATE DIV OF FORESTRY
POMAKULA 107	A 8063	02	HAWAIIA	2	19 45	155 32	6511	VAR				STATE DIVISION OF PARKS
PUAKO 95-1	A 8166	05	KOHALA	1	19 39	155 30	5	BA	BA			ERWIN H. RAPP
PUU KIIHE 120	A 8393	01	HAWAIIA	2	19 54	155 24	7750	NO				KUPAIAU RANCH CO
PUU LAU 102-1	A 8402	05	HAWAIIA	2	19 50	155 36	7440	NO				STATE DIV OF FISH-GAME
PUU LEMUA 73	A 8400	01	N KONA	4	19 34	155 49	4870	NO				W.M. GREENWELL RANCH
PUU MALI 113	A 8515	01	HAWAIIA	2	19 55	155 26	6960	NO				KUPAIAU RANCH CO
PUU MA 82	A 8550	02	S HILO	2	19 44	155 27	6340	NO				MISS JACKIE BENECH
PUU MAHANA 94-1	A 8555	03	N KONA	3	19 47	155 31	5250	TA				PUU MAHANA RANCH CO
SADOLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340	NO				BOARD OF WTR SUPPLY
SOUTH POINT CORRAL 3	A 8603	03	HILO	3	19 57	155 41	3500	NO				HAWAIIAN RANCH COMPANY
UMUKOA 118	8780	01	HAWAIIA	2	19 59	155 23	3420	BA				KUPAIAU RANCH CO
UPOLI POINT USC 159-2	8830	01	N KOHALA	1	20 15	155 53	61	BA	BA			U S COAST GUARD
MAIAKEA SCO 80-2	9025	02	S HILO	2	19 40	155 08	1050	TA				SHINICHI KANESEHRI
MAIKAHANOUKA 178-6	9350	01	N KOHALA	2	20 08	155 47	3830	TA				KAHUA RANCH

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "MONTHLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION: is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Net values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS: for all stations are climatological standard normals based on the period 1931-1960.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS: will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES: for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index

No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry

+ And also on an earlier date or dates.

→ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.

* Amount included in following measurement, time distribution unknown.

A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement; where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.

B Adjusted to a full month.

M One or more days of record missing. If average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.

R Amounts from recording gage.

T Trace, an amount too small to measure.

V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR Observation made after rain.

C In Special Column of Station Index Indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Monthly Summarized Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R." Such amounts may differ from amounts published from the recording gage in the "Monthly Precipitation Data" bulletin.

MO Gage read once monthly; usually on the last day.

OC Gage readings at periods varying from a few weeks to several months.

S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.

J "Supplemental Data" table.

SS Observation time is near sunset.

VAR Observation time is variable.

WI Gage read weekly or irregularly only.

WM Gage read weekly and last day of month.

Thermometers are generally exposed in a shelter located a few feet above sod-covered ground, however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

General weather conditions in the U. S. for each month are described in the publications MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY, and STORM DATA, all of which may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

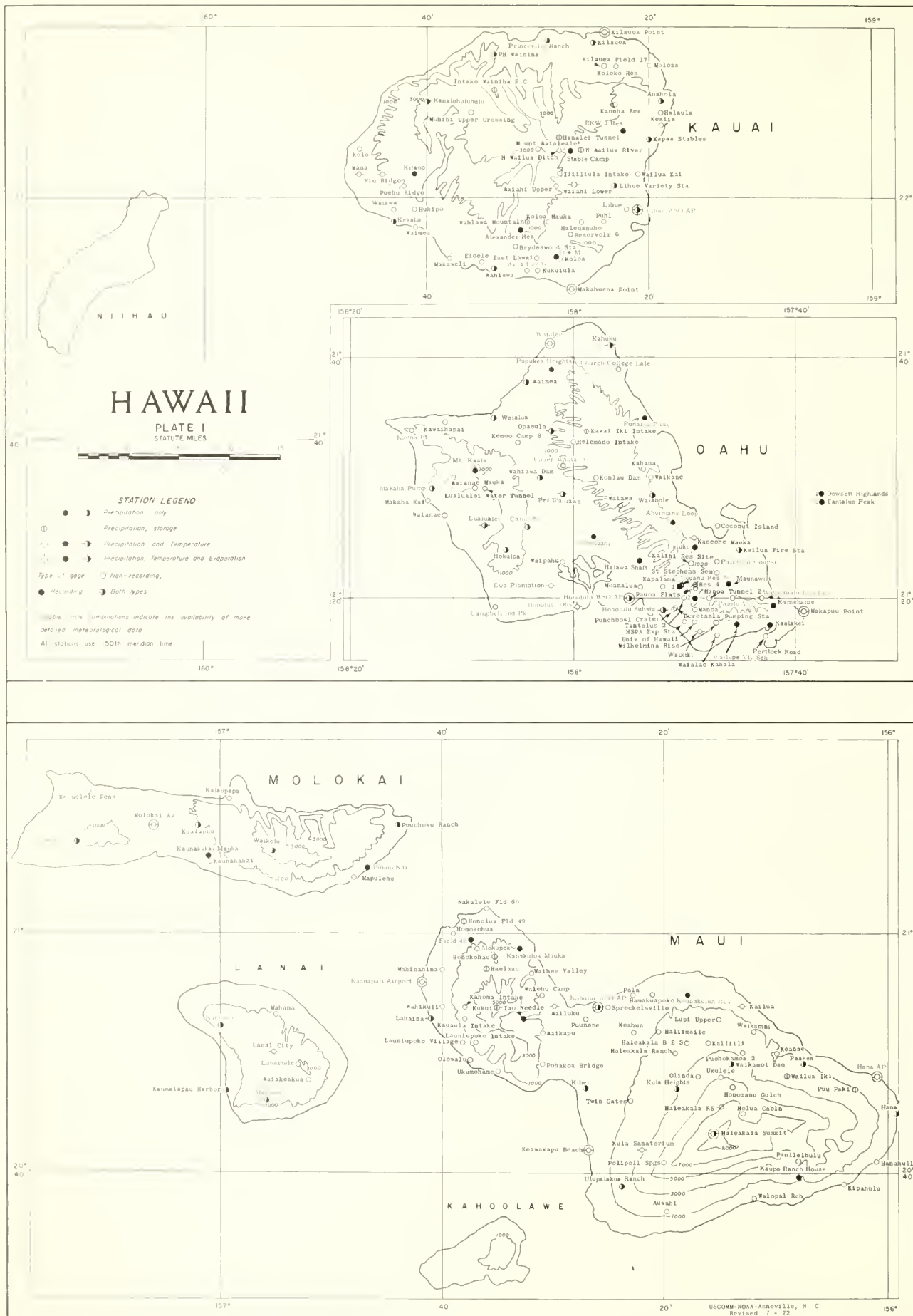
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the Superintendent of Documents at the address shown above.

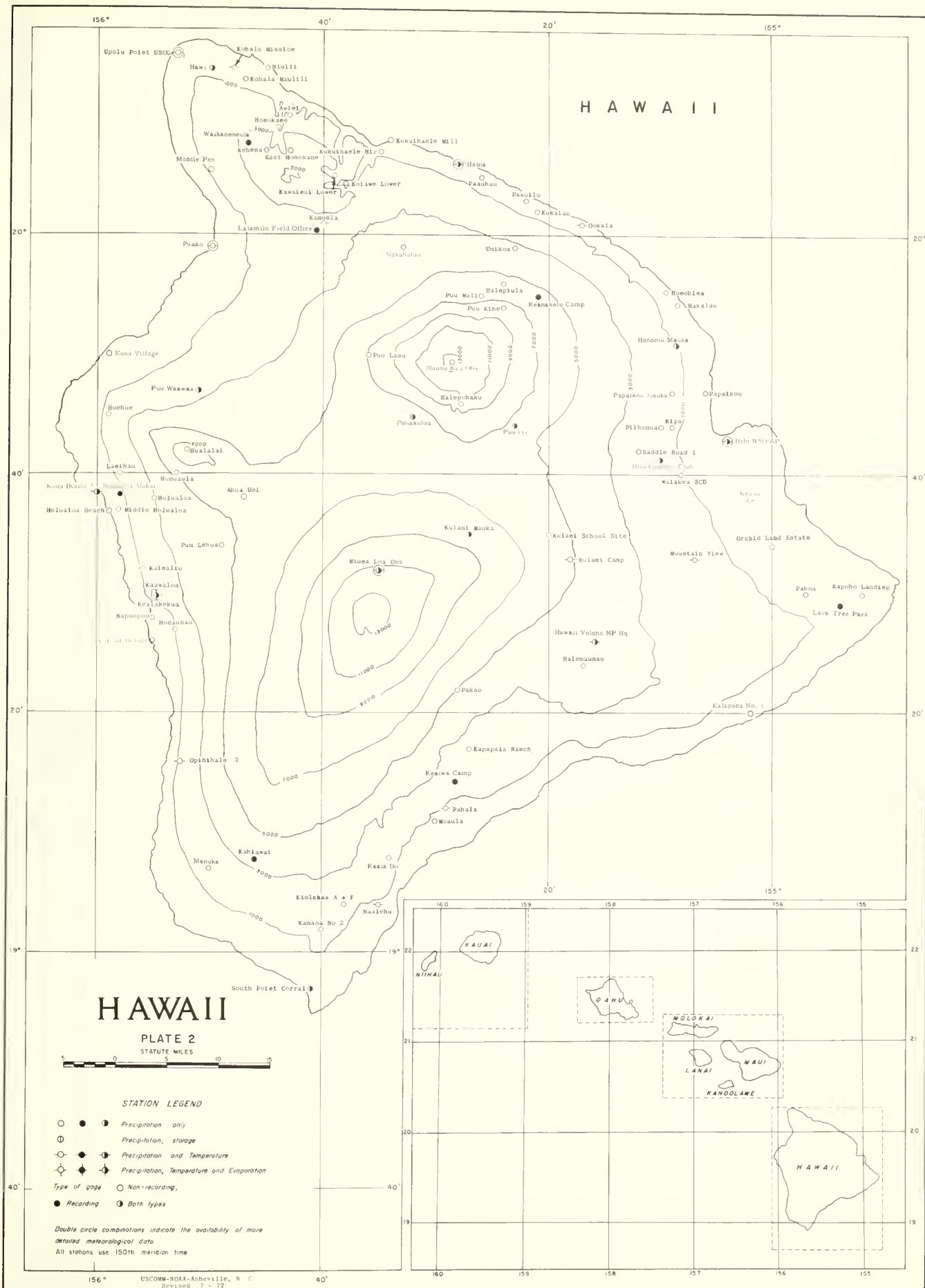
Subscription Price: \$2.50 a year for each section including annual summary, \$1.00 additional for foreign mailing. 20¢ single copy, 20¢ annual summary. Make checks payable to Department of Commerce, NOAA. Send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center

USCOM-NOAA-ASHEVILLE, N. C. 3/30/73-890





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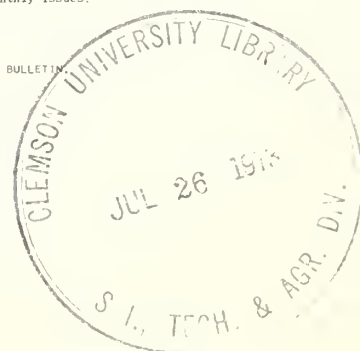
Volume 68 No. 13

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
ISLAND OF KAUAI																										
KANAOHULUHUU 1075	54.3		55.4		56.5		59.2		61.0		62.5		63.8		65.7		63.1		62.6		59.5		54.0		59.8	
KILAUEA POINT 1133	72.0		71.8M		73.1		72.4		76.4M		78.8		78.0		80.0		79.0		78.2	M	76.1	M	70.5	- 1.7	75.3	- .8
LIIHUE WSD 1020.1 AP	70.4	- .5	70.9	- .2	72.4	1.4	74.0	1.5	76.7	2.2	77.6	1.0	78.6		79.9	1.5	78.8		79.2		75.6		71.3M		75.6M	
MAKAUEA POINT 940.1	71.4		71.8M		74.1		73.2		75.8		77.9		78.8		79.7		78.8		79.2		75.6		71.3M		75.6M	
MANA 1020	70.5	- .6	70.6	- .2	72.5	1.3	73.1	.4	75.3	.6	77.4	.7	77.8	- .1	78.9	.6	77.3	- .6	75.2	- 1.8	73.7M	- 1.0	70.5	- .4	74.5M	- .4
NIU RIDGE 1035	66.4		67.2		68.9		68.9		70.6		72.2		73.6		74.2		74.4		73.4		71.3M		67.0		70.7M	
WAIAMI LOWER 1054	65.7		65.1		69.1		69.1		71.3		72.2		73.3		75.3		73.7		73.5		70.3		66.4		70.4	
ISLAND	66.6		66.8		68.7		69.6		72.1		73.7		74.3		76.0		74.4		72.4		69.9		65.7		70.9	
ISLAND OF OAHU																										
HOA PLANTATION 741	M		68.3M	- 2.6	70.9M	- .9	M		74.3M	- .6	77.0M	- .2	M		79.6M	1.3	M		77.6M	1.0	M		71.6	- 2.0	76.2	- .3
ENHOLELU WSD 703 AP	70.4	- 2.1	70.6	- 1.8	72.8		75.0	- .8	77.3	1.4	78.9	- 1.0	80.4	- 1.6	81.1	1.7	80.5	- .3	78.3		76.7		71.6	- 1.8	75.0	- .1
HONOLULU SUBSTA 704	71.3	- .9	71.2	- .7	72.6	.4	73.0	- .2	75.7	.8	76.6	- .2	77.5	- .2	78.8	.4	78.8		78.0		74.9		71.5	- 1.8	75.0	- .1
KAHUKU 912	69.6		69.5	- .2	69.0M	2.2	66.4	- 1.6	68.5	M	70.6	3.7	81.6	3.9	81.4	3.1	81.1M	2.9	79.7	2.4	78.0	3.2	73.6	- .9	74.5M	- .4
KANEHE MAUKA 781	71.1	- 1.4	69.9	- 1.3	72.6M	.9	72.8	.3	74.5	.3	76.3	.4	77.4M	.9	78.5M	1.4	78.1M	1.3	77.3	1.2	75.0	.8	71.3	- .8	74.5M	- .4
LIUALAUE 1804	70.2M		71.1		72.2		74.2		76.5		77.9		80.2M		81.3		80.0		79.3		76.1		69.9		75.8M	
MAKAPOO POINT 724	69.6		68.4		71.2		70.7		70.5		73.9M		74.4M		76.1		76.8M		76.1		72.1		69.7		72.5M	
MAKAIWA 870	66.8	- .0	66.5	- .2	69.0M	2.2	66.4	- 1.6	68.5	- .9	70.3	- 1.3	71.3	- .9	72.4	- .6	73.5	- .3	72.3	- .1	70.3	.1	67.2	- .3	69.6M	- .3
PRI WAIHAKA 820.2	67.4		67.2M		69.6		70.3		72.3M		74.1		75.2		75.9		76.1		75.0		71.5		66.9		71.8M	
WATALEE 896.3	69.7M		70.0		72.9		72.3		75.3		76.7		78.3		79.3M		79.2		78.7M		75.1		72.0		75.0M	
WAILUA 847	67.0	- 3.5	67.7	- 2.5	70.3		70.2	- 1.3	71.7	- 1.7	74.3	- 1.0	75.4	- .8	76.9	- 2	77.5	- 1.2	76.3		73.8	.4	69.7	- 1.5	72.6	- .6
WAIKIKI 717.2	71.4		71.0M		73.2M		74.2		76.1		77.6M		78.8M		79.7M		79.2		78.4		76.0		71.3M		75.6M	
WAIMANALO EXP FARM	70.5		70.6		71.7		73.0		75.7		76.6		78.4		79.6		78.2		78.4		74.8		71.1		75.8	
ISLAND	69.4		69.4		71.5		71.9		73.9		76.1		77.4		78.4		79.2		77.3		74.5		70.4		74.1	
ISLAND OF MOLOKAI																										
MOLOKAI AP 324	69.6		69.2M		71.6		72.0		74.2		75.0		77.0M		77.4		78.1		77.2		74.1		70.1		73.8M	
ISLAND	69.6		69.2		71.6		72.0		74.2		75.0		77.0		77.4		78.1		77.2		74.1		70.1		73.8	
ISLAND OF LANAI																										
LANAI CITY 672	M		63.7M	- 1.8	M		66.2M	- .8	67.2M	- 1.3	-		71.3M	.2	72.2M	.3	M		70.7M	.0	M		M		-	
ISLAND			63.7				66.2		67.2				71.3		72.2				70.7							
ISLAND OF MAUI																										
MALEAKALA PMS 337	47.5		47.5		52.0		50.1		51.9		55.7		56.5		56.6		54.8		54.8		54.7		50.8		52.7	
KAHAKA SUMMIT 338.4	M		42.0M		45.1M		44.0		46.6		50.3M		51.2		51.4		50.4		48.4		47.7M		43.8		46.8	
HANA AIRPORT 355	69.0M		69.5		72.1M		72.3M		74.2		75.0		75.3		76.4		76.4		76.4		73.4M		71.1M		73.4M	
KANAPALI AIRPORT	69.7M		70.3		72.0M		72.9M		74.2		75.0		75.3		76.4		76.4		76.4		73.4M		71.1M		73.4M	
KANULU WSD 398 AP	69.5	- 2.6	70.4	- 1.3	72.0	- .2	73.6	- 2	74.7	- .6	76.0	- 1.2	77.9	- .4	79.1	- 1	78.4	- .2	78.1	.8	75.2	- 2	71.2	- 1.5	74.7	- .5
KAILUA 446	66.7	- 1.7	66.8	- 1.3	69.3	1.2	68.5	- .6	70.1	- .3	71.7	- .2	72.0	- .7	73.4	- 2	74.0	-	73.1		70.7	- .3	69.2	-	70.5	-
KEANAKAPU BEACH 260.2	70.3		70.4		72.9		73.1		74.1M		76.7		78.1		78.7M		78.2		77.6		75.1		71.8		74.8M	
KILO WSD 87 AP	61.3	- .1	60.6	- .5	63.0	1.8	62.7	- .7	63.7	- 2	65.1	- 2	66.3	.3	67.8	1.1	67.1		67.3	1.1	64.6	-	62.4M	- 1	64.3M	-
LANAIWA 361	71.9		71.1		73.1		73.7		75.3		76.4		77.4		78.5		77.8		77.4		74.7		71.0		74.9	
WAILUKU 386	69.0M	- 2.7	69.0M	- 1.7	72.1M	.6	M		74.2M	- 2	75.5M	- .9	M		77.3M	- .7	M		77.0M	.0	M		69.6		69.6	
ISLAND	65.6		65.7		68.2		69.9		71.5		73.9		71.8		73.4		72.3		72.6		69.6		66.7		69.6	
ISLAND OF HAWAII																										
HAINA 214	66.5	- 1.0	66.7	- .8	71.5	2.0	70.3	- .3	72.0	- .6	73.7	- .7	74.4	- .3	75.4	- .9	75.7	- 1.2	75.3	1.3	72.0	- .0	69.7	- .5	72.3	- .1
HAWAII VOLCNS NP HO 54	56.3M	- 1.8	56.2M	- 1.7	59.9M	2.0	55.0M	- 1.1	57.5M	- 1.1	61.4M	- .6	61.6	- 1.3	63.6	- .0	63.2M	- .1	63.3	.4	60.0	- .8	58.5	- .2	60.1M	- .1
KAILUA 73.2	70.1	- .7	70.7	- .1	73.8	3.2	72.7	- 1.1	73.0	- .0	75.3	- 1.0	75.4	- .5	76.5	- .7	76.4	- .9	76.0	.9	73.3	- .1	71.4	- .1	73.7	- .7
KAMUELA 192.2	60.8		60.2		67.8		68.1		68.6		69.9		71.5		72.1		71.8		71.8		69.9		67.5		69.3	
KEAU 92	66.4	- 1.9	66.8	- 1.5	71.6	1.3	70.0	- 1.1	70.9	- 1.6	73.2	- .5	73.8	- .6	74.7	- .4	74.8	- .1	74.8	.0	71.8	- .8	70.3	-	71.9	-
KEANAKAPU 26.2	67.2		67.3		68.9		68.8		69.1		69.9		71.0		72.6		72.6		72.3M		70.6		68.1		69.9M	
KOHALA MISSION 175.1	68.5	- 1.0	68.2	- 1.2	70.9	1.5	69.9	- .4	72.2	.3	73.9	- .5	75.1	- 1.0	75.8M	1.1	75.9	- 1.3	74.8	.7	71.7	- .3	70.0	- 1	72.2M	-
KONA (KAILUA) 68.3	72.6M		72.1M		73.9M		73.7		75.3		76.2M		77.2M		79.5M		79.0M		79.2M		77.3M		74.7		75.8	
KULANI CAMP 79	50.9		52.7M		55.9		53.5M		53.9																	

A SPECIAL WEATHER SUMMARY DESCRIBING UNUSUAL WEATHER WAS PUBLISHED IN ALL 1972 MONTHLY ISSUES OF THIS BULLETIN

See Reference Notes Following Station Index



TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII
1972

TABLE 2

STATION		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL		
		PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	
ISLAND OF KAUAI																												
ANAHOLA 1114	A	8.94	2.22	9.18	3.72	3.36	-2.85	15.01	10.90	1.84	-1.11	4.17	2.52	3.35	-.96	1.92	-.97	2.83	-.70	7.16	2.24	2.21	-2.55	1.71	-3.49	61.68	12.09	
ARROHODD STA 985	A	8.25	1.00	5.79	-.37	3.75	-2.02	9.78	6.21	3.00	-.32	2.08	-.53	1.64	-2.40	2.54	-2.62	4.40	-.88	10.29	5.23	4.72	-.63	3.78	-3.42	60.62	1.01	
EAST LAHAI 934	A	9.44	2.62	6.84	-.81	3.80	-2.14	10.27	5.91	2.22	-1.53	3.28	-.47	4.09	-.88	4.21	-1.96	4.53	-.39	8.56	3.29	4.65	-1.23	2.37	-4.67	64.32	1.06	
ELELE 927	A	6.83	2.03	2.67	-1.07	4.05	-.72	6.02	4.33	-.90	-.42	3.02	2.02	4.48	-.78	1.46	-.84	3.86	2.42	7.49	4.78	2.21	-.74	2.37	-1.81	41.56	10.84	
HAULA 1110	A	8.48	1.57	10.13	4.78	3.63	-.24	15.80	11.88	1.92	-1.08	4.12	2.21	3.76	1.50	2.93	-.03	2.82	-.53	7.51	2.92	2.27	-2.92	1.45	-4.07	64.82	14.96	
HALENAHANC 1006	A	9.17		7.94		3.42		12.70		3.76		5.20		5.28		5.21		6.18		9.82		5.55		2.96		77.19		
HUKIPO 945	A	7.08		3.79		3.84		6.59		.23		1.48		.05		.60		2.47		5.60		.50		2.71		33.94		
ILILILUA INTAKE 1050	A	14.34		23.64		6.77		25.29		12.81		9.41		13.74		9.58		8.60		16.35		10.96		5.20		156.69		
INTAKE WAINIMA PC 1086	A	9.55		15.91		3.24		9.40		1.41		4.52		5.58		4.87		8.21		5.07		3.40		4.28		75.19		
KANALOHULUHU 1075	A	8.54		12.44		11.89		8.59		.73		1.88		2.23		1.04		2.76		5.55		4.95		8.59		69.19		
KANEHA RESERVOIR 1092	A	12.05		15.19		6.27		16.89		6.01		7.47		7.83		6.55		5.26		13.80		4.88		2.37		104.57		
KAPAA STARLES 1104	A	9.04		10.46		3.18		16.67		2.06		4.96		3.67		3.17		3.41		7.46		2.27		1.76		68.11		
KEALIA 1112	A	9.39	3.51	9.83	5.14	2.98	-2.32	14.23	10.87	1.37	-.82	3.63	2.00	2.99	1.08	2.32	-.21	2.98	-.88	7.12	3.32	2.10	-2.39	1.17	-3.68	60.11	17.40	
KEHAHA 944	A	6.66	2.98	2.45	-.47	3.39	-.80	6.02	4.95	-.09	-.69	.67	.33	-.28	-1.00	-.19	-.78	2.00	1.32	5.75	3.91	-.34	-1.25	2.39	-.93	30.23	10.16	
KILAUEA 1134	A	7.43	-.70E	8.45	2.33	3.81	-3.58	10.16	4.65	1.98	-3.02	3.72	-.45	5.67	1.23	3.12	-1.87	2.79	-.83	6.34	1.19E	3.53	-3.14E	2.09	-5.11E	59.08	8.39	
KILAUEA FIELD 17 1135	A	10.16	.07	8.87	.69	3.83	-6.05	14.00	6.19	3.14	-4.45	5.49	-.44	9.38	2.67	4.79	-2.90	4.69	-.59	8.55	1.48E	4.29	-3.99E	2.61	-6.90E	79.80	-13.34	
KILAUEA POINT 1133	A	10.37		8.02		5.28		7.77		1.57		1.89		6.33		6.37		2.11		5.18		2.63		2.09		59.51		
KOLO 1033	A	4.47		2.28		4.12		3.51		.64		1.38		1.06		.89		1.07		5.12		1.54		2.42		28.59		
KOLOA 936	A	11.40	4.44	8.72	2.48	2.75	-3.88	10.47	5.74	3.90	-.45	3.50	-.19	16.53	1.23	3.47	-3.05	3.94	-.44	7.71	2.40	5.10	-.97	1.93	-5.69	66.72	-.79	
KOLOA MAUKA 994	A	9.74	-.03	10.17	.84	4.80	-3.65	13.13	6.47	4.60	-1.56	3.73	-1.99	5.63	-1.74	5.63	-3.17	7.16	-.78	12.12	4.18	6.66	-1.61	4.07	-6.12	07.44	7.80	
KOLOK RES 1137	A	11.00		9.08		4.46		14.55		3.42		7.20		8.26		5.18		3.07		8.35		4.28		2.39		81.24		
KUKUIULA 935	A	9.55	4.19	5.54	1.07	4.65	-.71	7.61	5.20	1.28	-.63	1.77	.36	1.48	-.58	2.23	-1.01	3.19	-.93	3.23	2.98	2.71	-1.30	1.92	-3.69	71.26	6.79	
LIHUE VARIETY STA	A	8.69		8.81		2.10		14.07		1.97		4.71		2.18		4.44		2.05		9.42		3.55		2.15		71.07		
LIHUE 1020	A	6.61	.10	7.28	1.56	2.18	-3.34	12.34	8.48	1.20	-2.54	3.51	1.22	2.79	-.01	2.42	-1.11	2.93	-.03	7.41	2.43	2.05	-3.08	1.78	-4.40	52.50	-.58	
LIHUE WSD 1020.1 AP	///	6.44	.93	7.27	2.45	1.99	-2.57	10.65	7.31	-.75	-1.84	1.74	.28	2.25	-.31	1.27	-1.19	1.95	-.13	6.07	2.04	1.39	-3.14	1.27	-3.91	43.34	.54	
MAKAHUEA POINT 940.1	A	8.51		7.41		1.87		8.23		.48		.76		.76		1.29		1.30		4.73		1.92		1.71		38.97		
MAKAHUEA 965	A	4.43	.55	3.14	-.50	3.61	1.11	8.47	7.34	-.29	-.57	1.08	.71	4.44	-.17	-.35	-.88	3.48	2.60	7.43	5.18	1.08	-1.09	2.48	-.92	36.28	13.35	
MANA 1026	A	5.42	1.36	2.04	-.77	3.76	1.11	3.80	2.55	-.24	-.66	.40	-.24	1.35	.77	.51	-.48	1.39	.60	6.43	4.37	.78	-1.27	2.21	-1.09	28.32	6.27	
MOHAI UPR CROSS 1083	A	8.93		15.12		8.98		7.94		1.00		1.91		2.09		1.67		4.96		1.86		1.02		14.83		67.45		
MOLAA 1145	A	10.56	3.65	9.19	3.49	3.98	-2.50	12.03	7.92	1.41	-1.94	3.59	.88	3.11	.73	3.11	.06	1.76	-.42	5.64	2.40	2.61	-2.40	2.06	-3.15	59.05	8.34	
MOUNT WAIALEALE 1047	RE21.9	49.50		49.50		8.66		57.75		24.02		18.07		31.05		17.58		21.43		27.79		25.53		-		-	-	
NIU RIDGE 1035	A	5.77		2.66		4.21		6.07		1.15		.39		1.87		.60		2.11		5.92		1.28		3.44		35.47		
N WAILUA DITCH 1051	A	16.50		28.05		8.96		28.89		12.26		11.08		16.54		10.43		12.66		18.61		12.70		7.26		183.34		
PN WAINIMA 1115	A	6.42	-3.81	11.64	-.01	8.41	-6.04	8.33	-3.94	2.39	-6.77	4.67	-1.31	8.66	-1.42	7.35	-3.12	4.52	-1.55	6.83	-1.41	7.51	-2.66	3.38	-10.21	80.29	-42.05	
PRINCEVILLE RANCH 1117	F	4.99	-3.34	5.51	-1.87	4.12	-5.46	12.41	5.63	2.59	-3.75	4.53	-.49	12.93	6.72	4.73	-2.59	3.49	-1.33	6.45	-.15	5.76	-2.49	1.90	-7.30E	49.01	-16.08	
PUEHU RIDGE 1040	A	9.63		4.48		5.51		6.38		.94		.49		1.26		.47		4.78		6.76		.89		3.79		45.38		
PUMI 1013	A	8.52		7.15		3.04		15.12		2.27		4.82		3.67		3.67		4.09		9.97		3.41		2.80		68.43		
RESERVOIR 6 1004	A	11.09	3.65	7.70	.50	3.85	-3.16	13.42	8.34	3.41	-1.07	4.07	.31	4.88	-.44	4.56	-2.29	5.41	-.64	10.25	4.18	5.08	-1.67	3.26	-4.76	77.08	4.23	
WAIHANA 930	A	7.19	2.16	3.43	-.83	3.48	-.02	6.71	4.79	1.69	-1.19	1.31	-.01	7.44	-.98	4.94	-1.58	3.76	2.05	9.97	6.95	2.69	-.40	1.86	-2.65	43.75	9.70	
WAIHANA MOUNTAIN 990	A	10.13	-1.38	19.50	7.17	5.13	-7.88	21.50	10.26	8.75	-2.08	8.25	-3.03	8.88	-5.10	8.25	-7.42	11.50	-.71	17.75	6.04	16.38	3.58	6.50	-7.62	142.52	8.70	
WAIHAI LOWER 1054	A	12.14		17.72		4.98		18.96		6.52		6.91		9.88		6.20		6.79		11.43		8.18		3.94		113.65		
WAIHAI UPPER 1052	A	13.87		20.31		5.01		21.47		8.80		6.90		10.90		6.63		7.46		12.85		9.86		4.33		128.39		
WAIHAI 963	A	5.05	1.13	2.03	-.61	3.42	1.09	5.64	4.52	-.09	-.75	.14	.66	1.14	-.66	-.19	-.90	1.55	.83	5.07	3.12	.36	-1.25	2.33	-.75	27.25	6.70	
WAIHAI KAI 1005	A	8.08		5.00		2.17		3.71		1.53		3.97		2.18		2.39		2.05		7.72		4.38		1.69		60.92		
WAIHAI 947	A	6.17	2.49	5.05	1.65	3.49	1.13	7.26	6.13	-.07	-.78	1.60	1.32	.08	-.34	-.15	-.89	1.90	1.24	3.56	3.45	-.32	-1.42	2.27	-1.08	33.72	12.65	
WEST LAHAI 931	A	7.71	2.21	5.38	.67	4.34	-.06	7.12	4.60	1.36	-.67	1.73	-.09	1.97	-.46	1.88	-1.39	3.04	.57	8.50	4.81	3.29	-1.01	1.79	-3.51	48.11	5.67	
ISLAND																												
ISLAND OF MAUI																												
BERETANIA PUMPING STA	A	7.																										

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

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TABLE 2 - CONTINUED

		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL			
STATION		PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE		
HAIALUA 847		A	4.65	.55	4.82	.01	4.98	1.48	4.75	3.03	.21-	.89	.79	.07	.27-	.47	1.06-	.32	2.34	1.55	3.77	1.10	2.18-	.17	3.20-	.74	33.04	5.20	
HAIANAE 798.2		A	4.60	.81	4.84	1.71	3.49	1.18	3.50	2.38	.05-	.54	.56	.21	.01-	.37	.13-	.74	.62-	.15	3.14	1.27	.33-	1.48	3.20-	.74	33.04	5.20	
HAIANAE HAKUA 803		A	9.50	.72	11.13	3.48	7.87	.01	1.54-	3.25	3.23-	.92	.79-	2.43	.64-	3.13	3.60-	.76	3.12-	.13	8.64	3.34	8.64	8.53-	.91	58.59-	8.42	58.59-	
HAIAWA 836		A	13.17	1.73	12.17-	.77	3.95-	9.89	18.40	7.00	5.72-	6.12	5.43-	5.41	7.42-	5.88	7.96-	6.45	6.89-	3.08	*	*	10.23	6.34-	9.15	97.88-	50.91		
HAIKANE 885		A	17.18	5.31	15.54	2.32	6.40-	8.84	29.50	15.50	5.01-	6.85	5.90-	2.08	7.26-	3.50	9.80-	1.87	6.70-	3.84	15.44	3.54	4.85-	5.31	7.44-	6.80	132.07-	12.42	
HAIKIKI 717.2		A	5.51		5.12		2.48		4.07		.16		.39		.27		.60		.59		2.11		.53		2.43		24.26		
HAIMANALO EXP FARM		A	11.09		5.22		3.08		5.28		.55		1.05		.58		1.29		.46		2.96		2.17		3.09		36.83		
HAIMEA 892		A	4.70-	.66	4.98-	.92	3.66-	1.08	7.85	4.60	1.63-	1.03	1.41-	1.13	1.39-	1.60	2.37-	1.07	1.56-	.30	4.30	.39	3.76-	.44	2.84-	2.68	40.45-	6.57	
HAIRAMU 750		A	5.15	.99	4.08	.39	2.07-	1.11	7.43	5.55	.11-	1.09	.84	.04	.32-	.35	.39-	.84	.87-	.21	2.71	.37	.94-	1.62	2.97-	.57	27.68	1.55	
HELMELINA RISE 721		R	7.64	3.01	8.28	4.26	3.62-	.90	5.46	2.26	1.00-	1.44	1.94	.48	1.80-	.06	2.06-	.19	1.42-	.24	2.84-	.44	2.70-	.34	2.90-	1.38	41.66	5.02	
ISLAND			8.63		7.01		3.76		8.42		1.60		2.08		1.93		2.72		2.15		4.48		3.18		3.87		49.83		
ISLAND OF MOLOKAI																													
KALAUPAPA 563		A	1.73		8.73		8.96		2.27		.13		1.31		.27		3.74		.25		2.30		.99		6.29		36.97		
KAUNAKAKAI 536		A	1.76		4.88		4.44		.83		.00		1.12		.00		.47		.00		1.26		.14		2.61		17.53		
KEONELELE PENS 551		A	2.76		4.60		3.63		.75		.00		1.30		.20		1.20		.12		2.65		.46		3.36		20.83		
KUALAPUHI 534		A	3.09-	1.05	7.16	3.52	5.33	.77	.89-	2.17	.06-	1.52	1.23	.56	.39-	.44	2.29	1.07	.42-	.30	2.70	.28	.87-	2.23	3.36-	.90	27.79-	2.52	
MAPELEHU 542		A	5.12	1.26	6.04	1.94	3.73-	.49	2.80-	.29	1.09-	1.62	1.63-	.56	1.35-	1.59	3.22	.32	.96-	1.64	2.31-	1.10	2.52-	1.18	2.13-	2.08	32.90-	6.94	
HAUNALOHA 511		A	4.83	.50	7.56	4.48	3.54-	.23	1.38-	.93	.07-	1.40	1.88	1.13	.02-	1.74	1.08-	.12	1.09-	.02	2.22-	.16	1.13-	1.62	2.62-	.88	27.47-	.43	
MOLOKAI AP 524		A	3.06		6.06		3.80		.87		.17		1.90		.17		.12		.94		2.77		23.05						
PUUOHOKU RANCH 542.1		A	7.54		9.01		4.22		1.31		.17		1.34		.98		5.32		E	.96	E	2.31		1.37		1.51		E	33.94
WAIKOLU 540		A	4.55		5.54		4.54		5.97		.152		4.59		1.85		5.87		E	5.33		6.92		6.43		9.20		62.31	
ISLAND			4.03		6.71		4.10		1.49		.31		1.66		.48		1.97		.65		2.32		1.37		2.72		27.81		
ISLAND OF LANAI																													
KANIEPUU 690		A	3.34		5.36		5.76		2.20		.00		1.26		.03		.53		2.47		1.37		.60		3.09		26.01		
KAUNALAPAPA HARBOUR 658		A	1.71		4.85		4.03		1.32		.04		.69		.00		.00		.92		.12		.12		2.02		15.79		
LANAI CITY 672		A	4.93	.31	9.68	5.95	5.40	1.07	1.84-	1.08	.73-	1.94	1.36-	.06	.24-	1.48	.62-	1.16	1.29-	.98	2.12-	.83	.30-	2.56	3.21-	.51	31.72-	3.27	
LANAIKALE 684		A	2.59		7.17		3.78		3.77		1.56		1.22		1.28		1.50		1.34		1.98		.70		1.90		28.79		
MAHANA 694		A	3.53		5.86		5.23		1.27		.00		1.05		.08		.13		.76		2.36		.35		3.83		24.45		
MALAUEA 676		A	4.41		6.37		6.98		1.31		.00		1.52		.00		.16		1.12		.94		.35		2.00		25.14		
MAHAUEA 685		A	6.10		9.51		3.13		1.52		.39		.92		.00		.96		1.09		1.59		.23		3.45		28.89		
ISLAND			4.93		9.68		5.40		1.84		.73		1.36		.24		.62		1.29		2.12		.30		3.21		31.72		
ISLAND OF MAUI																													
AUWAHI-252		A	5.92		6.64		10.81		1.58		.25		.75		.05		1.48		1.20		1.05		.65		5.10		35.40		
HALEAKALA B E S 434		A	1.79-	5.61	9.38	.26	1.90-	7.31	1.75-	1.11	.72-	3.68	1.75-	1.03	1.54-	2.59	4.51-	.17	1.90-	.40	4.63	.34	4.16-	2.08	4.76-	5.70	46.11-	26.86	
HALEAKALA RANCH 432		A	1.24-	4.59	6.66	.18	2.31-	3.47	3.08-	1.54	.73-	1.11	.86-	.04	.32-	2.20	4.81-	.64	1.52	.20	2.23-	.44	1.32-	2.12	3.51-	3.12	26.59-	16.61	
HALEAKALA RS 338		A	.79		9.37		3.33		5.23		.38		1.29		.56		2.88		.99		2.07		.99		4.56		32.44		
HALEAKALA SUMMIT 338.4		A	3.38		9.07		1.97		4.09		.54		.59		.55		2.67		.68		1.28		.29		3.63		28.74		
HALIIMALE 423		A	.96		8.20		2.13		3.13		.53		.84		.76		2.72		1.74		3.42		1.70		4.52		30.65		
HAMAKUAPOKO 485		A	.92-	3.85	9.82	5.12	2.77-	2.77	3.15-	1.74	.30-	2.98	1.57-	1.70	1.85-	1.61	3.90	.20	1.22-	.92	2.45-	1.02	3.51-	.52	3.84-	2.25	35.30-	13.54	
HANA 354		A	7.51		11.56		5.12		4.29		2.47		4.42		2.96		9.86		3.66		4.04		2.28		5.32		63.47		
HANA AIRPORT 355		A	6.25		13.61		4.18		6.45		1.63		3.09		3.21		7.51		3.71		4.92		4.39		7.56		66.71		
HANAHULI 281		A	5.86		12.33		8.01		4.81		2.74		5.33		4.32		6.24		3.02		3.89		3.62		4.59		65.54		
HOLUA CABIN 259.5		A	.95		10.92		.57		6.10		.76		1.00		.26		3.44		1.74		2.11		.53		3.81		32.19		
HONOKOHU 480		A	5.32		18.72		6.66		7.35		.40		4.84		6.12		11.50		4.30		1.70		8.50		7.80		96.81		
HONOKOHU 493		A	2.67-	1.39	7.23	3.49	5.82	1.74	2.42-	.76	.96-	1.30	1.03-	.65	1.06-	1.32	3.05	.47	2.77	1.09	2.46-	.72	2.40-	.92	3.45-	1.20	35.32-	.97	
HONOHUAMU GULCH 341		A	1.80		11.00		4.20		12.80		2.00		2.40		3.00		8.40		1.00		5.40		3.60		3.80		59.40		
KAANAPALI AIRPORT		A	3.34		6.38		4.62		.68		.06		1.15		.11		.48		.45		1.11		.30		2.27		20.95		
KAHOMA INTAKE 374		A	2.90-	6.45	3.43-	6.49	2.67-	8.91	4.60-	4.53	1.25-	7.06	2.75-	4.40	1.90-	6.06	2.20-	5.47	1.60-	3.01	2.73-	3.11	2.60-	5.15	2.00-	11.18	30.63-		

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

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TABLE 2 CONTINUED

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL		
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	
ISLAND OF HAWAII																											
AMU UPT 75	A	2.00-		4.60	2.43	3.40	.41	.75-	1.53	1.50-	.96	.07-	1.65	.60-	1.67	.70-	2.29	.20-	1.42	1.00-	.89	.25-	1.35	4.13	2.85	19.20-	5.74
ATINI 182.1	AE	6.48-	.07	4.20-	7.23			6.22				13.67		6.58-	6.08	4.05-	8.28	16.00	9.67	4.50-	4.18	18.70	8.49				
CITY OF REFUGE 27.4		5.71		2.08		4.16		2.91		2.72		2.17		1.43		6.14		2.49		1.49		.37		4.07		35.74	
EAST HONOLULU 183.2	A	10.25-	2.88	11.85-	1.08	12.60-	6.83	19.00	.46			8.69		11.90-	4.36	18.12	1.73										
HAUNA 214	A	2.65-	2.41	6.05-	.87	2.16-	5.92	4.66-	3.01	1.59-	3.33	1.21-	.71	6.51	3.02	7.09	2.45	2.77	.48	3.18-	2.07	10.94	5.27	6.94-	.76	56.23-	7.83
HAKALAU 142		9.21-	1.44	15.37	1.79	2.55-	12.34	18.27	5.72	3.79-	6.06	4.90-	1.93	8.42-	1.41	12.54	.76	5.48-	2.44	13.00	1.75	11.39-	.95	5.55-	9.07	110.47-	25.62
HALEHAUHA 52		7.98		8.48		1.78		6.20		1.37		.88		1.00		3.90		.49		2.53		3.53		3.38		41.52	
HALEPIULA 117		3.00-	.72	3.02-	2.72	1.87-	5.09	5.21	1.14	1.10-	1.09	.52-	.51	.75-	.88	7.41	3.64	.38-	1.26	2.51-	1.00	2.30-	.95	3.41-	2.04	31.48-	11.48
HALEPOHAKI 111		5.74		4.16		5.09		5.08		.79		.12		1.32		2.58		1.00		1.85		3.92		3.70		35.35	
HAWAII VOLCANO NP HQ 54		12.28	.06	6.75-	3.50	4.90-	7.08	16.10	7.70	4.29-	1.78	.42	.39	5.54	.47	5.96-	1.63	3.18-	1.91	5.92-	.94	12.92	2.74	4.80-	5.34	67.61-	10.84
HAWI 168	A	3.38-	1.32	5.67	1.33	4.74-	.48	3.17-	1.87	1.77-	1.79			1.61-	1.35	2.44-	1.44	1.46-	2.73	1.91-	.36	3.38-	.23	6.04	2.02	6.75	.83
HILLO COUNTRY CLUB 86.6	A	14.82		11.89		1.79		36.58		11.85		7.28		17.53		15.11		8.62		19.30		31.12		4.26		180.35	
HILLO WSO 87 AP	A	10.96-	.86	10.13-	2.81	.88-	13.82	17.79	5.87	4.71-	4.62			9.07-		8.77-	2.68	5.20-	3.30	9.50-	1.28	13.23-	.14	4.01-	11.17	98.65-	37.77
HOLUALOA 70	A	9.12	4.61	10.40	6.09	8.40	2.16	2.90-	4.27	2.60-	7.40	14.00	4.29	3.10-	5.28	3.05-	4.83	3.20-	4.91	1.40-	4.47	1.70-	2.44	3.22	.76	63.09-	15.66
HOLUALOA REACH 68	A	3.08	.78	1.34-	.52	5.21	2.74	4.61	2.30	1.97-	.68	3.38	.05	3.44	.90	.40-	2.46	2.83	.12	.76-	1.72	.20-	1.57	3.17	1.61	30.39	1.55
HONOLULU 27		7.78		2.96		4.27		5.35		5.40		5.36		7.91		5.70		7.56		2.39		.87		2.44		52.46	
HONOLULU 137		8.58-	3.17	15.32-	.33	4.65-	13.29	22.37	6.88	4.59-	7.72	5.31-	2.41	9.38-	2.59	11.60-	2.14	4.86-	4.35	11.80-	1.07	13.59-	.12	5.89-	11.30	117.94-	41.61
HONOLULU 181.1	A	19.45	7.90	11.00-	1.53	4.35-	12.73	12.48-	.417	*		8.75		6.47-	6.21	18.00	5.58	6.00	.29	*	21.19		12.50-	3.90	120.19		
HONOLULU MAUKA 138	A	12.72-	3.34	20.84	2.52	2.89-	18.23	37.77	18.79	9.89-	5.36	7.37-	3.12	16.72	1.72	21.78	4.13	8.58-	3.18	18.74	3.02	28.80	11.21	5.97-	15.63	192.07-	7.43
HONOLULU 71	A	8.20	4.43	12.60	9.17	6.02	1.92	3.04	.05	3.73-	3.90	1.80-	2.30	1.14-	2.93	1.58-	1.79	2.24-	1.10	.40-	1.82	.30-	1.34	4.32	2.77	42.37	3.19
HUALALAI 72	A	1.80	.04	2.60	.75	1.04-	1.01	1.92	.53	.20-	1.66	.24-	1.17	.60-	.91	.70-	.72	1.04-	.71	.02-	.92	.20-	.40	1.63	1.01	11.99-	5.17
HUEHUE 92.1	A	3.20-	.93	4.20	1.49	3.52-	.19	1.09-	1.92	3.67-	1.00	6.43	1.93	1.13-	1.37	.83-	1.89	2.58-	.65	2.34-	1.25	*		6.85		35.84	
KAAIA 141 132	A	13.67		2.71		4.42		10.61		4.20		4.05		2.63		4.09		4.11		6.52		1.49		.57		60.07	
KAAHAWA 29	A	5.84	2.11	8.33-	.07	5.75	.85	5.78		3.16-	2.54	3.16-	3.53	6.81-	.27	6.52-	.07	5.92-	.99	5.11-	.71	1.05-	2.53	4.47	2.14	55.45-	7.41
KAINALU 73.2	A	8.16	4.20	4.45	1.06	4.09-	.39	3.07-	2.59	4.90-	2.80	5.99-	1.96	11.27	2.72	5.79-	1.90	5.15-	2.45	6.59	.39	1.44-	2.83	3.91	.90	65.61-	5.65
KALAPANA NO 1 67.8		14.83		10.23		4.02		9.91		1.09		2.64		2.20		2.48		1.44		6.14		6.09		1.61		62.68	
KAMAHUA 2	A	5.76		10.96		1.72		1.72		1.73		3.22		1.52		2.76		3.57		2.52		1.57		1.77		37.23	
KAMUELA 192.2	A	2.57-	1.74	5.45	1.23	5.85	1.58	2.90-	.99	.30-	2.46	1.17-	.61	1.23-	1.41	3.12	.04	2.28	.98	.46-	.17	2.15-	.91	4.58	.11	34.07-	3.83
KAPAPALA PAICH 36	A	12.38	3.37	3.60-	3.73	4.62-	7.72	6.88	.78	2.04-	1.97	2.02-	.08	1.09-	1.06	5.81	1.43	1.27-	2.12	9.50	3.90	6.19-	.04	4.72	.05	61.02-	1.10
KAPOHU LANDING 93.5	A	16.39		10.65		2.20		9.15		5.25		4.47		4.95		7.61		4.94		6.54		5.14		4.73		82.02	
KAWAII LOKER 193	A	9.78-	3.61	7.44-	7.23	11.90-	8.26	23.09	2.11	4.83-	12.73	6.16	.44	15.13-	.52	18.59	1.64	9.08	1.35	5.61-	5.52	18.98	7.54	11.01-	7.34	141.60-	36.80
KEAAU 92	A	14.84	2.28	11.49-	1.94	1.41-	14.17	21.20	8.78	5.78-	4.10	4.89-	2.97	10.68	.54	10.30-	1.45	6.06-	2.99	10.43-	1.95	15.88	1.95	2.90-	3.27	115.84-	29.29
KEALAKUUA 26.2	A	5.44		3.65		5.48		3.97		4.46		3.83		8.20		6.71		5.64		4.93		1.57		4.53		58.41	
KEHENA 181.2	A	22.70	12.38	10.00-	.06	12.94	.24	17.00	4.38			7.18		8.00-	1.55	11.50	2.31										
KIOLAKAA A F 6	A	11.50	4.11	3.55-	3.73	6.10	.05	6.80	1.63	3.00-	2.04	4.64-	.54	2.50-	2.98	1.15-	5.42	4.00-	1.92	6.55	1.30	3.36-	3.22	.62-	3.85	53.77-	16.61
KIPA 89.2	A	14.52		17.77		1.16		43.08		11.18		9.06		19.41		17.82		13.77		21.35		34.53		4.63		208.28	
KOHALA MAULILI 176	A	3.12-	3.81	6.73-	.23	5.06-	7.82	4.61-	4.88	2.68-	4.05	1.74-	3.44	3.53-	3.29	3.68-	.38	2.97-	.96	3.94-	2.16	10.00	3.56	6.38-	2.61	55.06-	28.45
KOHALA MISSION 175.1	A	8.00-	1.93	8.15	3.01	5.75	.49	5.78	3.00	5.70-	2.18	3.74		3.33-	1.87	2.90-	1.44	3.87-	.68	7.89	2.67	7.89	2.67	5.60-	1.59	52.66-	10.12
KOHAHA LOWER 195	A	3.72-	5.19	4.88-	5.46	5.40-	7.43	13.11-	.19	3.01-	7.29	2.86-	3.80	6.70-	3.23	10.03-	1.05	4.53	1.10	3.3-	3.64	11.45	4.55	5.90-	5.93	75.84-	37.58
KONA (KAILUA) 68.3	A	2.71		3.11		3.14		1.43		3.61		2.08		4.82		.84		2.67		.43		.09		3.89		28.82	
KONA VILLAGE 93.8		1.95		1.04		3.14		.10		.24		.43		.00		1.95		.18		.65		.00		4.04		13.72	
KUKIAU 222	A	4.34-	3.31	7.97-	3.68	3.15-	11.46	6.84-	6.58	2.70-	5.91	2.95-	.46	9.84	3.48	9.93	1.84	3.19-	.43	6.27-	1.58	20.					

TEMPERATURE EXTREMES

Table 3

HAWAII
1972

Station	Highest	Date	Lowest	Date	Station	Highest	Date	Lowest	Date
* * *					* * *				
ISLAND OF KAUAI					ISLAND OF MAUI				
KANALOHULUHULU 1075	80	8-29	36	3-31+	HALEAKALA RS 338	75	7-13+	31	2- 1
KILAUEA POINT 1133	90	9-16	-	-	HALEAKALA SUMMIT 338.4	70	8- 3	21	4-27
LIHUE WSO 1020.1 AP	88	9-14	55	12-11	HANA AIRPORT 355	88	9-14+	51	1-31
MAKAHUENA POINT 940.1	90	10-19+	50	1-21	KAANAPALI AIRPORT	89	8- 7	53	1-11
MANA 1026	92	8-19+	53	12-31+	KAHULUI WSO 398 AP	94	8- 6	50	1-31+
NIU RIDGE 1035	87	9-27	52	2-27+	KAILUA 446	86	3- 8	55	2- 1+
WAIHI LOWER 1054	88	8-29	47	12-11+	KEAWAKAPU BEACH 260.2	95	9-28	52	1-31
* * *					KULA SANATORIUM 267	81	8-19	47	2- 2
ISLAND OF OAHU					LAHAINA 361	91	9-17+	57	12-13+
EWA PLANTATION 741	91	10-16	50	2- 2	WAILUKU 386	89	10-16	50	1-12+
HONOLULU WSO 703 AP	90	8-15+	53	1-31	* * *				
HONOLULU SUBSTA 704	88	10-14	61	2- 1+	ISLAND OF HAWAII				
KAHUKU 912	89	7-17+	-	-	HAJINA 214	88	2- 6	57	12-20
KANEIHE MAUKA 781	89	10-14	59	2- 2+	HAWAII VOLCNS NP HQ 54	79	10-25+	44	12-20+
LUALUALEI 804	96	10- 5	53	12-11	HILO WSO 87 AP	93	3-23	57	3-10+
MAKAPUU POINT 724	87	9- 1	56	5-16	KAINALIU 73.2	86	10-15	52	1-31
OPAEULA 870	88	10-15+	49	1-31	KAMUELA 192.2	85	10-14	39	2- 1
PRI WAIHAWA 820.2	92	9-17	49	12-12+	KEAAU 92	89	12-19	55	3- 3
WAIALEE 896.3	89	10-16+	60	2- 1	KEALAKEKUA 26.2	86	10-14	53	12-21+
WAIALUA 847	94	9-15	53	2-28+	KOHALA MISSION 175.1	87	9-14	56	3-31
WAIKIKI 717.2	91	10-16+	52	2- 1+	KONA (KAILUA) 68.3	93	8-29	60	12-20+
WAIMANALO EXP FARM	95	10-14	54	1-31	KULANI CAMP 79	78	9- 4	36	3-24
* * *					MAUNA LOA SLOPE OBS	66	6-25	24	1- 8
ISLAND OF MOLOKAI					MOUNTAIN VIEW 91	87	12-26+	48	12-20
MOLOKAI AP 524	87	10-18+	56	12-11	NAALEHU 14	89	8-30	57	2- 1
* * *					OOKALA 223	87	6- 5	54	2-20
ISLAND OF LANAI					OPIHIHALE 2 24.1	89	10-13	-	-
LANAI CITY 672	85	9-26+	52	2-14+	PAHALA 21	89	8-18	54	12-21
					PUAKO 95.1	91	8-29+	52	12-20
					UPOLU POINT USCG 159.2	89	12-25+	55	1- 1

See Reference Notes Following Station Index

Table 4

TOTAL EVAPORATION AND WIND MOVEMENT

HAWAII
1972

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
HAWAII														
* * *														
ISLAND OF KAUAI														
LIHUE WSD 1020.1 AP	EVAP	5.688	6.328	7.098	7.918	9.27	8.79	9.77	10.22	9.448	7.868	6.37	5.198	93.91
	WIND	3239	4584	3027	53308	5038	4241	-	4947	4576	3600	5084	2668	-
	MAX	-	73.8	77.9	76.0	80.8	81.6	82.9	91.2	90.1	88.0	82.3	78.7	-
	MIN	55.0	55.1	56.0	57.3	59.9	61.3	64.0	71.1	69.6	69.6	66.3	59.8	62.1
* * *														
ISLAND OF OAHU														
HONOLULU OBSERV 702.2	EVAP	4.708	5.008	6.568	7.718	10.13	8.688	10.45	10.03	9.22	7.44	6.32	5.19	91.43
	WIND	780	926	977	1121	1021	1118	1213	997	907	803	509	403	10775
	MAX	78.9	80.7	86.3	85.4	89.0	89.6	89.5	91.4	90.9	88.2	82.8	77.3	85.8
	MIN	58.7	59.1	62.5	62.4	63.9	66.0	65.9	67.3	66.2	65.6	62.3	57.4	63.1

RELOCATION AND CHANGES OF EQUIPMENT

ISLAND OF HAWAII		
HILO COUNTRY CLUB 86.6	EQUIPMENT MOVED 1000 FEET SSE	JULY 10, 1972
ISLAND OF KAUAI		
KOLOKO RESERVOIR 1137	EQUIPMENT MOVED 800 FEET NNE	DECEMBER 21, 1971
PRINCEVILLE RANCH	EQUIPMENT MOVED 100 FEET SE	SEPTEMBER 28, 1972
ISLAND OF MAUI		
KULA HEIGHTS 323.2	FISCHER & PORTER GAGE REPLACES UNIVERSAL GAGE	FEBRUARY 14, 1972
ULUPALAKUA RANCH 250	FISCHER & PORTER GAGE REPLACES UNIVERSAL GAGE	FEBRUARY 8, 1972
ISLAND OF OAHU		
HALAWA SHAFT 771.2	FISCHER & PORTER GAGE REPLACES UNIVERSAL GAGE	MAY 1, 1972
KAMEHAME 724.7	EQUIPMENT MOVED 200 YARDS SE	APRIL 4, 1972
KAWAIHAPAI 841	EQUIPMENT MOVED 0.9 MILE WSW	JANUARY 11, 1972
LUALUALEI 804	EQUIPMENT MOVED 300 FEET SW	JULY 6, 1972

See Reference Notes Following Station Index

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STATION INDEX														STATION INDEX													
HAWAII														HAWAII													
Station	Index No.	Division No.	DISTRICT	Drainage	Latitude	Longitude	Elevation	Temp.	Precip.	Evap.	Years of record	Opened or closed during yr.	Refer to tables	Station	Index No.	Division No.	DISTRICT	Drainage	Latitude	Longitude	Elevation	Temp.	Precip.	Evap.	Years of record	Opened or closed during yr.	Refer to tables
ISLAND OF KAUAI														ISLAND OF OAHU													
ALEXANDER RESV. 983	0140	02	KOOLA	2 21 57 159 32	1010									KAUPAHU 750	9738	03	EWA	3 21 23 158 01	59								
ALANUI 1114	0145	03	KAWAII	2 22 08 159 31	180									WILHELMINA RISE 721	9780	02	HONOLULU	2 21 18 157 47	1100								
8000000 STA 985	0240	02	KOOLA	2 21 56 159 32	720									ISLAND OF MOLOKAI													
EAST LANA 934	0240	02	KOOLA	2 21 55 159 32	720									KALAUAPPA 563	2896	01	HONOLULU	1 21 12 156 59	30								
CRK 3 RESERVOIR 1094-1	0450	01	KAWAII	2 22 06 159 31	275									KALAUAPPA 542.6	3040	01	HONOLULU	1 21 04 156 52	60								
ELEETE 927	0470	02	KOOLA	2 21 54 159 35	163									KANAKAKA 536	3541	01	HONOLULU	1 21 06 157 01	12								
HALAULA 110	0935	01	KAWAII	1 22 07 159 19	253									KANAKAKA 536.5	3547	01	HONOLULU	1 21 07 157 01	12								
HALEMANAHO 1006	1038	02	KOOLA	1 22 05 159 28	400									KEONELE PENS 551	4394	01	HONOLULU	1 21 12 157 12	560								
HANALEI TUNNEL 1053	1170	01	KAWAII	1 22 05 159 28	1218									KALAUAPPA 534	4778	01	HONOLULU	1 21 09 157 02	878								
HUKIPD 945	2161	03	WAIHEA	3 21 59 159 41	800									HALEMANAHO 1006	6138	01	HONOLULU	1 21 04 156 48	22								
ILILIULA INTAKE 1050	2222	02	LIMU	2 22 02 159 28	1055									MAUNALO 511	6190	01	HONOLULU	1 21 08 157 13	1070								
INTAKE WAININA PC 1088A	2227	01	HANALEI	1 22 09 159 34	690									MAUNALO 511	6534	01	HONOLULU	1 21 09 157 06	450								
KALAHOUHULU 1075	3099	03	WAIHEA	3 22 08 159 40	380									MAUNALO 511	9251	01	HONOLULU	1 21 09 157 06	450								
KANAMA RESERVOIR 1092	3104	01	KAWAII	1 22 08 159 23	8300									PUDOHU RANCH 542.1	8549	01	HONOLULU	1 21 09 156 44	700								
KAPPA STANLEY 1104	3159	03	WAIHEA	3 22 15 159 20	175									WAIKOLU 540	9404	01	HONOLULU	1 21 08 156 55	3550								
KEALIA 1112	3982	01	KAWAII	1 22 06 159 19	9									ISLAND OF LANAI													
KEKANA 944	4272	03	WAIHEA	3 21 58 159 43	9									KANAPA 690	3130	01	LANAI	1 20 52 157 00	1650								
KILAUEA 1134	4561	01	HANALEI	1 22 11 159 24	317									KANAPA 690	3461	01	LANAI	1 20 47 157 00	30								
KILAUEA FIELD 17 1135	4566	01	HANALEI	1 22 11 159 24	415									LANAI CITY 672	5286	01	LANAI	1 20 50 156 55	1620								
KILAUEA POINT 1133	4568	01	HANALEI	1 22 11 159 24	180									LANAI CITY 672	5301	01	LANAI	1 20 50 156 55	1620								
KITANO 1037-1	4650	03	WAIHEA	3 22 02 159 41	2150									MAHANA 694	5704	01	LANAI	1 20 52 156 55	1430								
KOLO 1033	4735	03	WAIHEA	3 22 04 159 46	36									MAHANA 694	6012	01	LANAI	1 20 46 156 55	1150								
KOLO 930	4742	02	KOOLA	3 21 55 159 28	240									MAHANA 694	9021	01	LANAI	1 20 47 156 52	2040								
KOLO MAUKA 994	4750	02	KOOLA	3 21 58 159 29	640									ISLAND OF MAUI													
KOLOKO RES 1137	4758	01	KAWAII	1 22 11 159 23	650									BUWAH-252	0175	02	HANA	2 20 37 156 20	2060								
KUAIKULU 935	4950	02	KOOLA	3 21 54 159 30	100									FIELD 46 474	0541	04	LANAI	2 20 59 156 38	1050								
LIMU VARIETY STA	5560	02	LIMU	2 22 01 159 23	775									HELEKAU 477	0790	04	LANAI	2 20 57 156 36	2980								
LIMU WSD 1020-1 AP	5575	02	LIMU	2 21 59 159 22	207									HALEKALA RANCH 432	0999	01	MAKAWA	1 20 50 156 19	1850								
HAHAIONE POINT 940-1	5785	02	KOOLA	2 21 52 159 27	103									HALEKALA RES 338	1004	02	MAKAWA	2 20 46 156 15	7030								
HAKAWAHI 965	5822	03	WAIHEA	3 22 05 159 42	11									HALEKALA SUMMIT 336.4A	1008	02	MAKAWA	2 20 46 156 15	7030								
HANA 1001	6092	03	WAIHEA	3 22 02 159 46	11									ISLAND OF MOLOKAI													
HOMINI UPD CROSS 1083	6097	02	KOOLA	2 21 55 159 28	300									HAHAIHAI 423	1075	01	MAKAWA	1 20 52 156 21	1070								
HOLGA 1145	6423	03	WAIHEA	3 22 07 159 28	300									HAKAUPAOKO 485	1086	01	MAKAWA	1 20 52 156 21	1070								
MOUNT WATIALE 1047	6529	01	KAWAII	1 22 11 159 20	330									ISLAND OF LANAI													
NIO RIDGE 1053	6550	01	KAWAII	1 22 11 159 20	330									HANA 354	1122	01	HANA	1 20 45 155 59	120								
N WAILUA DITCH 1051	6893	02	LIMU	2 22 04 159 28	110									HANA AIRPORT 355	1148	01	HANA	1 20 45 155 59	120								
N WAILUA RIVER 1055	6898	02	LIMU	2 22 04 159 28	110									HANAHUHI 281	1148	01	HANA	1 20 45 155 59	120								
PH WAINIMA 1115	8155	01	HANALEI	1 22 12 159 34	101									HANA CABIN 259.5	1552	02	MAKAWA	2 20 45 156 13	6930								
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1 22 13 159 29	295									HONOHU 480	1835	04	MAKAWA	2 20 58 156 23	480								
PUEHU RIDGE 1040	8205	03	WAIHEA	3 21 54 159 28	1660									HONOHU 480	1835	04	MAKAWA	2 20 58 156 23	480								
PUNE 1013	8217	02	LIMU	2 21 58 159 27	325									HONOHU 480	1835	04	MAKAWA	2 20 58 156 23	480								
RESERVOIR 6 1004	8573	02	LIMU	2 21 57 159 27	420									HONOHU 480	1835	04	MAKAWA	2 20 58 156 23	480								
STABLE CAMP 1055-1	8694	02	LIMU	2 22 04 159 27	420									HONOHU 480	1835	04	MAKAWA	2 20 58 156 23	480								
WAINIMA 930	8941	03	WAIHEA	3 21 54 159 28	215									HONOHU 480	1835	04	MAKAWA	2 20 58 156 23	480								
WAINIMA MOUNTAIN 990	8949	02	KOOLA	2 21 58 159 31	2100									HONOHU 480	1835	04	MAKAWA	2 20 58 156 23	480								
WAIHAI LOWER 1053	8956	02	LIMU	2 22 02 159 28	780									HONOHU 480	1835	04	MAKAWA	2 20 58 156 23	480								
WAIHAI UPPER 1052	8956	02	LIMU	2 22 02 159 28	780									ISLAND OF LANAI													
WAINIMA 943	9253	03	WAIHEA	3 21 59 159 43	10									KAHAKULA MAUKA 482.3	2453	03	WAILUKU	4 20 59 156 33	650								
WAILUA KAT 1065	9467	02	LIMU	2 22 02 159 21	50									KAHONA INTAKE 374	2552	04	LANAI	4 20 54 156 38	2000								
WAINIMA 947	9629	03	WAIHEA	3 21 58 159 41	20									KAHONA INTAKE 374	2552	04	LANAI	4 20 54 156 38	2000								
WEST LANAI 921	9629	03	WAIHEA	3 21 58 159 41	20									KAHONA INTAKE 374	2552	04	LANAI	4 20 54 156 38	2000								

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Station	Index No.	Division No.	DISTRICT	Drainage†	Latitude	Longitude	Elevation	Years of record				Opened or closed during yr.	Refer to tables	Station	Index No.	Division No.	DISTRICT	Drainage†	Latitude	Longitude	Elevation	Years of record				Opened or closed during yr.	Refer to tables		
								Temp.	Precip.	Evap.	Month opened											Month closed	Temp.	Precip.	Evap.			Month opened	Month closed
ISLAND OF HAWAII														PAUHAU 217	7204	01	HAWAII	1	20	05	155	26	415	83					2
KOHALA MAULILI 176	A	4675	01	N KOHALA	1	20	13	155	47	960	86			PAUHAU 221	7312	01	HAWAII	1	20	03	155	22	800	70			2		
KOHALA MISSION 175.1	A	4680	01	N KOHALA	1	20	14	155	48	937	66	83		PAHALA 21	7421	03	KAU	3	19	12	155	29	670	63	81		1, 2, 3		
KOHALA LOWER 196	A	4685	01	HAWAII	1	20	05	155	38	720	69			PAHOA 65	7457	02	PUNA	2	19	30	154	57	670	63			2		
KONA (KAILUA) 68.3	A	4764	04	N KONA	4	19	39	156	00	30	24	24		PAHOA 37	7643	03	KAU	3	19	22	155	28	500	44			2		
KONA VILLAGE 93.8	A	4765	04	N KONA	4	19	30	155	59	20	6			PAPAIAHOU 144.1	7711	02	S HILO	2	19	47	155	06	200	74			2		
KURAIKU 222	A	4815	01	HAWAII	1	20	02	155	21	840	78			PAPAIAHOU MAUKA 140.1	7721	02	S HILO	2	19	47	155	08	1270	47			2		
KURUIMAELE MIC 199	A	4926	01	HAWAII	1	20	07	155	35	980	65			PILIHOUA 49	8081	02	S HILO	2	19	44	155	10	1730	48			2		
KURUIMAELE HILL 206	A	4938	01	HAWAII	1	20	08	155	34	300	83			PONAKULOA 107	8063	02	HAWAII	2	19	45	155	32	6511	36			2, C		
KULANI CAMP 76	A	5011	02	S HILO	2	19	33	155	18	5170	14	25		PURAO 95.1	8186	05	KOHALA	5	19	59	155	50	5	11			1, 2, 3		
KULANI MAUKA 76	A	5018	05	N HILO	5	19	35	155	27	8300	22			PUU KIME 120	8393	01	HAWAII	1	19	54	155	24	7750	59			2		
KULANI SCHOOL SITE 78	A	5021	02	S HILO	2	19	35	155	20	5735	26			PUU LAU 102.1	8452	05	HAWAII	5	19	50	155	36	7440	41			2		
ALAMULO FLD OFF 191.1	A	5280	01	S KOHALA	1	20	01	155	41	2615	31			PUU LEHUA 73	8460	04	N KONA	4	19	34	155	49	4880	50			2		
LANIMAU AB. 2	A	5330	04	N KONA	4	19	40	155	58	1930				PUU MALI 113	8515	01	HAWAII	1	19	55	155	26	6960	41			2		
LAVA TIE PARY 66.1	A	5400	02	PUNA	2	19	29	154	54	650				PUU DD 82	8550	02	S HILO	2	19	44	155	23	6340	8			2, C		
MAKAHALAU 103	A	5761	02	HAWAII	1	19	59	155	33	3820	2			PUU MAWAA 94.1	8555	05	N KONA	5	19	47	155	51	2520	70			2, C		
MAKAHALAU 103	A	5761	02	HAWAII	1	19	59	155	33	3820	2			SADDLE ROAD 184	8590	02	S HILO	2	19	42	155	12	2340	25			2, C		
MAUNA KEA BEACH 98	A	6134	03	KAU	3	19	07	155	50	1760	44			SOUTH POINT CORRAL 3	8675	03	KAU	3	18	57	155	41	500	25			2, C		
MAUNA KEA OBS 111.2	A	6183	02	HAWAII	2	19	49	155	28	13770	17	14		S POINT TRACKING STA	8679	03	KAU	3	18	57	155	41	305				2		
MAUNA KEA SLOPE OBS	A	6186	05	HAWAII	5	19	32	155	35	11146				UNIKOA 114	8780	01	HAWAII	1	19	59	155	23	3420	80			2		
MIDDLE HOLUALOA 68.1	A	6268	04	N KONA	4	19	37	155	58	475	31			UPULU POINT USCG 159.2	8830	01	N KOHALA	1	20	15	155	53	61	15	17		1, 2, 3		
MIDDLE PEN 147.1	A	6270	01	N KOHALA	1	20	06	155	50	1380	9			WAIKAKA SCD 88.2	9025	02	S HILO	2	19	40	155	08	1050	21			2, C		
MOLUKEA 18	A	6407	03	KAU	3	19	11	155	30	600	54			WAIKANGOUA 178.6	9350	01	N KOHALA	1	20	08	155	47	3830				2, C		
MOUNTAIN VIEW 91	A	6552	02	PUNA	2	19	33	155	07	1530	36	73																	
NABIEHU 14	A	6586	03	KAU	3	19	04	155	35	679	19	84																	
NAPGODDO 78	A	6697	04	S KONA	4	19	28	155	55	395	33																		
NIULII 179	A	6806	01	N KOHALA	1	20	14	155	45	75	88																		
OKALA 223	A	7131	02	N HILO	2	20	01	155	17	430	53	83																	
OPIMIALE 2 24.1	A	7166	04	S KONA	4	19	16	155	53	1270	15	16																	
ORCHID LAND EST 91.5	A	7185	02	PUNA	2	19	34	155	00	445	10																		

† DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDYARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN
5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

REFERENCE NOTES

Additional information regarding the climate of Hawaii may be obtained by writing to the National Oceanic and Atmospheric Administration Regional Climatologist, P. O. Box 3650, Honolulu, Hawaii 96811, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are monthly averages of daily extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological normals based on the period 1931-1960. "DEP" in Table 4 refers to departures from long-term means based on periods varying from 10 to 29 years which are used in place of normals.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DELETED DATA AND CORRECTIONS will be carried in the June and December issues of Climatological Data.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record.
- + Also on earlier date (date) or months.
- * Amount included in following measurement.
- A The letter "A" shown following station name, (Table 2 and Station Index): Amounts carried in the monthly "Precipitation" column are for the period from last measurement of a preceding month through the last measurement of the current month. See Daily Precipitation Table of the monthly Climatological Data for the dates of measurement. Measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- E Amount is wholly or partially estimated.
- M One or more days record missing; if average value is entered, less than 10 day record is missing. See monthly Climatological Data for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month. V in annual column means total is for a two-year period.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- # Thermometers are generally exposed in a shelter located a few feet above sod covered ground; however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- C In Special Column of Station Rain Index Indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, will be published in the December issue of Climatological Data.

Years of record as shown in the Station Index are approximate since gaps in the records may not have been considered in arriving at the totals shown.

The four-digit identification numbers in the Index are assigned on an island basis. There will be no duplication of numbers within an island.

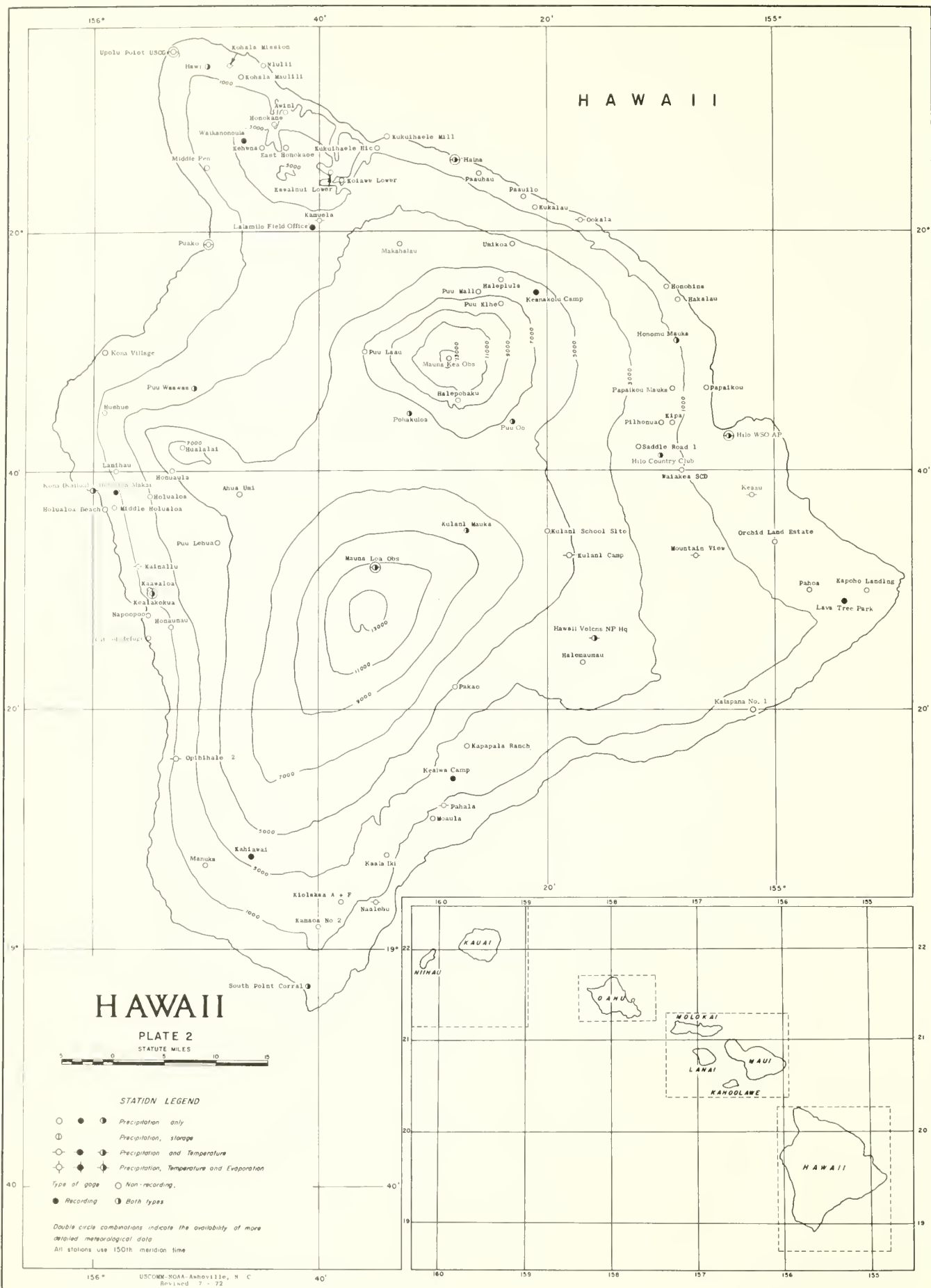
Information concerning the history of change in location, elevations, exposures, etc., of substations through 1957 may be found in the publication "Substation History" for this State. That publication may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402, for 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, obtained as indicated above, price 15 cents.

Subscription Price: \$2.50 a year for each section including annual summary; \$1.00 additional for foreign mailing; 20¢ single copy; 20¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Hoggard
Director, National Climatic Center

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